

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

Form 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended October 31, 2018

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number: 001-15405

Agilent Technologies, Inc.

(Exact name of registrant as specified in its charter)

Delaware

*State or other jurisdiction of
Incorporation or organization*

77-0518772

*I.R.S. Employer
Identification No.*

Address of principal executive offices: 5301 Stevens Creek Blvd., Santa Clara, California 95051

Registrant's telephone number, including area code: (408) 345-8886

Securities registered pursuant to Section 12(b) of the Act:

Title of each class

Common Stock

par value \$0.01 per share

Name of each exchange on which registered

New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act:

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Smaller reporting company

Emerging growth company

Non-accelerated filer

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The aggregate market value of the registrant's common equity held by non-affiliates as of April 30, 2018, was approximately \$16.0 billion. Shares of stock held by officers, directors and 5 percent or more stockholders have been excluded in that such persons may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of December 10, 2018, there were 318,533,054 outstanding shares of common stock, par value \$0.01 per share.

DOCUMENTS INCORPORATED BY REFERENCE

Document Description

10-K Part

Portions of the Proxy Statement for the Annual Meeting of Stockholders (the "Proxy Statement") to be held on March 20, 2019, and to be filed pursuant to Regulation 14A within 120 days after registrant's fiscal year ended October 31, 2018 are incorporated by reference into Part III of this Report

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Forward-Looking Statements

This report contains forward-looking statements including, without limitation, statements regarding trends, seasonality and growth in, and drivers of, the markets we sell into, our strategic direction, new product and service introductions and future products and services, adoption of our products, the ability of our products to meet market and customer needs, improving our customers' experience, future financial results, our operating margin, mix, our investments, including in manufacturing infrastructure and research and development, our ability to identify and enable synergies across our businesses, our focus on balanced capital allocation, competition, our contributions to our pension and other defined benefit plans, impairment of goodwill and other intangible assets, the effect of the U.S. Tax Cuts and Jobs Act of 2017 and U.S. and other tariffs, the impact of foreign currency movements, our hedging programs and other actions to offset the effects of tariffs and foreign currency movements, our future effective tax rate and tax valuation allowance, earnings from our foreign subsidiaries, repatriation of our earnings from foreign jurisdictions, the impact of local government regulations on our ability to pay vendors or conduct operations, our liquidity position, our ability to generate cash from operations, the potential impact of adopting new accounting pronouncements, indemnification, the use of contract manufacturers, out sourcing and third-party package delivery services, source and supply of materials used in our products, our sales, our purchase commitments, our capital expenditures, the integration of our acquisitions and other transactions, write down of investments values or loans and convertible notes, our stock repurchase program, our declared dividends, and the existence of economic instability, that involve risks and uncertainties. Our actual results could differ materially from the results contemplated by these forward-looking statements due to various factors, including those discussed in Part I Item 1A and elsewhere in this Form 10-K.

PART I

Item 1. Business

Overview

Agilent Technologies Inc. ("we", "Agilent" or the "company"), incorporated in Delaware in May 1999, is a global leader in life sciences, diagnostics and applied chemical markets, providing application focused solutions that include instruments, software, services and consumables for the entire laboratory workflow.

In 2018, we re-organized our operating segments and moved the microfluidics business from our life sciences and applied markets operating segment to our diagnostics and genomics operating segment. Following this re-organization and for the year ended October 31, 2018, we continue to have three business segments comprised of the life sciences and applied markets business, diagnostics and genomics business and the Agilent CrossLab business. All historical financial segment information for the life sciences and applied markets segment and the diagnostics and genomics segment has been recast to reflect this reorganization in our financial statements.

Our life sciences and applied markets business provides application-focused solutions that include instruments and software that enable customers to identify, quantify and analyze the physical and biological properties of substances and products, as well as enable customers in the clinical and life sciences research areas to interrogate samples at the molecular and cellular level. Our diagnostics and genomics business is comprised of six areas of activity providing solutions that include reagents, instruments, software and consumables which enable customers in the clinical and life sciences research areas to interrogate samples at the cellular and molecular level. The Agilent CrossLab business spans the entire lab with its extensive consumables and services portfolio, which is designed to improve customer outcomes. In addition, we conduct centralized order fulfillment and supply chain operations for our businesses through the order fulfillment and supply chain organization ("OFS"). OFS provides resources for manufacturing, engineering and strategic sourcing to our respective businesses. Each of our businesses, together with OFS and Agilent Technologies Research Laboratories, is supported by our global infrastructure organization, which provides shared services in the areas of finance, information technology, legal, certain procurement services, workplace services and human resources.

We sell our products primarily through direct sales, but we also utilize distributors, resellers, manufacturer's representatives and electronic commerce. As of October 31, 2018, we employed approximately 14,800 people worldwide. Our primary research and development and manufacturing sites are in California, Colorado, Delaware, Massachusetts and Texas in the U.S. and in Australia, China, Denmark, Germany, Italy, Japan, Malaysia, Singapore and the United Kingdom.

Life Sciences and Applied Markets Business

Our life sciences and applied markets business provides application-focused solutions that include instruments and software that enable customers to identify, quantify and analyze the physical and biological properties of substances and products, as well as enable customers in the clinical and life sciences research areas to interrogate samples at the molecular and cellular level. Key product categories include: liquid chromatography ("LC") systems and components; liquid chromatography mass spectrometry ("LCMS") systems; gas chromatography ("GC") systems and components; gas chromatography mass spectrometry ("GCMS") systems; inductively coupled plasma mass spectrometry ("ICP-MS") instruments; atomic absorption ("AA") instruments; microwave plasma-atomic emission spectrometry ("MP-AES") instruments; inductively coupled plasma optical emission spectrometry ("ICP-OES") instruments; raman spectroscopy; cell analysis plate based assays; flow cytometer; real-time cell analyzer; laboratory software for sample tracking, information management and analytics; laboratory automation and robotic systems; dissolution testing; vacuum pumps and measurement technologies.

We employed approximately 4,500 people as of October 31, 2018 in our life sciences and applied markets business.

Life Sciences and Applied Markets

Our life sciences and applied markets business focuses primarily on the following five markets:

The Pharmaceutical, Biotechnology, CRO & CMO Market. This market consists of "for-profit" companies who participate across the pharmaceutical value chain in the areas of therapeutic research, discovery & development, clinical trials, manufacturing and quality assurance and quality control. One sub-segment of this market is core and emerging pharmaceutical companies ("pharma"). A second sub-segment includes biotechnology companies ("biotech"), contract research organizations ("CROs") and contract manufacturing organizations ("CMOs"). Biotech companies and, to a somewhat lesser extent, CROs and CMOs typically participate in specific points in the pharmaceutical industry value chain. Additionally, due to the relatively low drug efficacy within oncology, pharma companies are partnering with diagnostic companies to bring validated tests to the market with their new drugs.

The Academic and Government Market. This market consists primarily of "not-for-profit" organizations and includes academic institutions, large government institutes and privately funded organizations. The academic and government market plays an influential role in technology adoption and therapeutic developments for pharmaceutical and molecular diagnostics companies. After decades of investment in basic biomedical research by government funding bodies, the focus has widened to include translational research - multidisciplinary scientific efforts directed at accelerating therapy development.

The Chemical & Energy Market. The natural gas and petroleum refining markets use our products to measure and control the quality of their finished products and to verify the environmental safety of their operations. Petroleum refiners use our measurement solutions to analyze crude oil composition, perform raw material analysis, verify and improve refining processes and ensure the overall quality of gasoline, fuels, lubricants and other products. Our solutions are also used in the development, manufacturing and quality control of fine chemicals and other industrial applications such as materials analysis.

The Environmental & Forensics Market. Our instruments, software and workflow solutions are used by the environmental market for applications such as laboratory and field analysis of chemical pollutants in air, water, soil and solid waste. Environmental industry customers include all levels of government, the industrial and manufacturing sectors, engineering and consulting companies, commercial testing laboratories and colleges and universities. Drug testing and forensics laboratories use our instruments, software and workflow solutions for applications such as analyzing evidence associated with crime, screening athletes for performance enhancing drugs, analyzing samples for recreational drugs, or detecting and identifying biological and chemical warfare agents. Some of our instruments are used in mobile laboratories as well. Customers include local, state, federal, and international law enforcement agencies and health laboratories.

The Food Market. Our instruments, software, and workflow solutions are used throughout the food production chain, including incoming inspection, new product development, quality control and assurance, and packaging. For example, our mass spectrometer portfolio is used to analyze contaminants and residual pesticides in food. There is also a significant food safety market involved in analyzing food for pathogen contamination, accurate verification of species type and evidence of genetically modified content.

Life Sciences and Applied Markets Products and Applications

Our products fall into eight main areas of work: liquid chromatography, gas chromatography, mass spectrometry, spectroscopy, software and informatics, lab automation and robotics, vacuum technology and cell analysis.

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Our key products and applications include the following technologies:

Liquid Chromatography

A liquid chromatograph ("LC") or a high performance liquid chromatograph ("HPLC") is used to separate molecules of a liquid mixture to determine the quantity and identity of the molecules present. The Agilent LC portfolio is modular in construction and can be configured as analytical and preparative systems. These systems can be stepwise upgraded to highly sophisticated, automated workflow solutions such as method development, multi-method/walk-up, high-capacity/high-throughput or multi-dimensional LC and can be extended to application-based analyzers e.g. for bio-molecular separations, chiral analysis or size exclusion chromatography. As a leader in liquid chromatography, we continue to expand our application space with new HPLC columns, new services and diagnostics offerings and ongoing instrument and software product enhancements.

Gas Chromatography

Agilent is the world's leading provider of gas chromatographs, both laboratory and portable models. GC's are used to separate any gas, liquid or solid that can be vaporized and then detect the molecules present to determine their identity and quantity. Agilent provides custom or standard analyzers configured for specific chemical analysis applications, such as detailed speciation of a complex hydrocarbon stream, calculation of gas calorific values in the field, or analysis of a new bio-fuel formulation. We also offer related software, accessories and consumable products for these and other similar instruments.

Mass Spectrometry

A mass spectrometer ("MS") identifies and quantifies chemicals based on a chemical's molecular mass and characteristic patterns of fragment ion masses that result when a molecule is broken apart. Liquid chromatography is commonly used to separate compounds and introduce them to the MS system. The combined use of LC and MS is frequently used both to identify and quantify chemical compounds. Mass spectrometry is an important tool in analyzing small molecules and can also be used to characterize and quantify proteins and other biological entities. Agilent's LCMS portfolio includes instruments built around four main analyzer types - single quadrupole, triple quadrupole, time-of-flight ("TOF") and quadrupole time-of-flight ("QTOF"). We significantly expanded our mass spectrometry portfolio in recent years with a focus on improving performance, sensitivity, and ease of use.

Spectroscopy

Spectroscopy is a technique for analyzing the individual chemical components of substances based on the absorption or emission of electromagnetic radiation of specific wavelengths of light. Our spectroscopy instruments include AA spectrometers, microwave plasma-atomic emission spectrometers ("MP-AES"), ICP-OES, ICP-MS, fluorescence spectrophotometers, ultraviolet- visible ("UV-Vis") spectrophotometers, Fourier Transform infrared ("FT-IR") spectrophotometers, near-infrared ("NIR") spectrophotometers, Raman spectrometers and sample automation products. We also offer related software, accessories and consumable products for these and other similar instruments.

Software and Informatics

We provide software for instrument control, data acquisition, data analysis, laboratory content and business process management, and informatics. Our software facilitates the compliant use of instruments in pharmaceutical quality assurance/quality control environments. With our OpenLab Laboratory Software Suite, Agilent has a scalable, open software platform that enables customers to capture, analyze, and share scientific data throughout the lab and across the enterprise.

Lab Automation and Robotics

We offer a comprehensive suite of workflow solutions to our life science customers with the addition of automated liquid handling and robotics that range from standalone instrumentation to bench-top automation solutions. These solutions strengthen our offering of automated sample preparation solutions across a broad range of applications.

Vacuum Technology

Our vacuum technologies products are used to create, control, measure and test vacuum environments in life science, industrial and scientific applications where ultra-clean, high-vacuum environments are needed. Vacuum technologies' customers are typically OEMs that manufacture equipment for these applications, or government and research organizations that require vacuum solutions in their facilities. Products include a wide range of high and ultra-high vacuum pumps (diffusion, turbomolecular and ion getter), intermediate vacuum pumps (rotary vane, sorption and dry scroll), vacuum instrumentation (vacuum control

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instruments, sensor gauges and meters) and vacuum components (valves, flanges and other mechanical hardware). These products also include helium mass spectrometry and helium-sensing leak detection instruments used to identify and measure leaks in hermetic or vacuum environments. In addition to product sales, we also offer a wide range of services including an exchange and rebuild program, assistance with the design and integration of vacuum systems, applications support and training in basic and advanced vacuum technologies.

Cell Analysis

Our cell analysis tools are used to study cell signaling pathways, general cell function and behavior through metabolic profile analysis, real-time cellular impedance measurements, and traditional cytometry techniques. Characterizing cellular behavior and function is an increasingly critical step in understanding normal behavior versus diseased states, advancements of those diseases, and response to therapies, providing researchers with a more targeted approach for drug discovery and ultimately more effective therapeutics. Cell analysis customers are typically academic institutions and pharma and biopharma companies.

Life Sciences and Applied Markets Customers

We had approximately 24,000 customers for our life sciences and applied markets business in fiscal 2018. No single customer represented a material amount of the net revenue of the life sciences and applied markets business. A significant number of our life sciences and applied markets customers are also customers of our Agilent CrossLab business.

The life sciences and applied markets business is susceptible to seasonality in its orders and revenues primarily related to U.S. and foreign government budgets, chemical and energy and environmental customers and large pharmaceutical company budgets. Historically, the result is that our first and fourth fiscal quarters tend to deliver the strongest profits for this group. However, general economic trends, new product introductions and competition might overshadow this trend in any given year.

Life Sciences and Applied Markets Sales, Marketing and Support

The life sciences and applied markets channels focus on the therapeutics and human disease research customer base (pharma, biotech, CRO, CMO and generics), clinical customer base (high complexity clinical testing labs) and on emerging life sciences opportunities in life science research institutes. We deploy a multi-channel approach, marketing products to our customers through direct sales, electronic commerce, resellers, manufacturers' representatives and distributors. We primarily use direct sales to market our solutions to our pharmaceutical, biopharmaceutical and clinical accounts. Sales agents supplement direct sales by providing broader geographic coverage and coverage of smaller accounts. Our active reseller program augments our ability to provide more complete solutions to our customers. We sell our consumable products through distributors, electronic commerce and direct sales.

Our products typically come with standard warranties, and extended warranties are available for additional cost.

Life Sciences and Applied Markets Manufacturing

Our manufacturing supports our diverse product range and customer-centric focus. We assemble highly configurable products to individual customer orders and make standard products to stock. We employ advanced manufacturing techniques and supply chain management systems to reduce costs and manufacturing cycle times. Our manufacturing process then converts these designs into standard as well as custom products for shipment to customers. We selectively use third parties to provide some supply chain processes for manufacturing, warehousing and logistics. We have manufacturing facilities in California, Delaware and Massachusetts in the U.S. Outside of the U.S., we have manufacturing facilities in Germany, Malaysia and Singapore. We have FDA registered sites in California, Germany and Singapore.

Life Sciences and Applied Markets Competition

The markets for analytical instruments in which we compete are characterized by evolving industry standards and intense competition. Our principal competitors in the life sciences and applied markets arena include: Danaher Corporation, PerkinElmer Inc., Shimadzu Corporation, Thermo Fisher Scientific Inc. and Waters Corporation. Agilent competes on the basis of product performance, reliability, support quality, applications expertise, global channel coverage and price.

Diagnostics and Genomics Business

Our diagnostics and genomics business includes the genomics, nucleic acid contract manufacturing and research and development, pathology, companion diagnostics, reagent partnership and biomolecular analysis businesses.

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Our diagnostics and genomics business is comprised of six areas of activity providing active pharmaceutical ingredients ("APIs") for oligo-based therapeutics as well as solutions that include reagents, instruments, software and consumables, which enable customers in the clinical and life sciences research areas to interrogate samples at the cellular and molecular level. First, our genomics business includes arrays for DNA mutation detection, genotyping, gene copy number determination, identification of gene rearrangements, DNA methylation profiling, gene expression profiling, as well as next generation sequencing ("NGS") target enrichment and genetic data management and interpretation support software. This business also includes solutions that enable clinical labs to identify DNA variants associated with genetic disease and help direct cancer therapy. Second, our nucleic acid solutions business provides equipment and expertise focused on production of synthesized oligonucleotides under pharmaceutical good manufacturing practices ("GMP") conditions for use as API in an emerging class of drugs that utilize nucleic acid molecules for disease therapy. Third, our pathology solutions business is focused on product offerings for cancer diagnostics and anatomic pathology workflows. The broad portfolio of offerings includes immunohistochemistry ("IHC"), in situ hybridization ("ISH"), hematoxylin and eosin ("H&E") staining and special staining. Fourth, we also collaborate with a number of major pharmaceutical companies to develop new potential pharmacodiagnosics, also known as companion diagnostics, which may be used to identify patients most likely to benefit from a specific targeted therapy. Fifth, the reagent partnership business is a provider of reagents used for turbidimetry and flow cytometry. Finally, our biomolecular analysis business provides complete workflow solutions, including instruments, consumables and software, for quality control analysis of nucleic acid samples. Samples are analyzed using quantitative and qualitative techniques to ensure accuracy in further genomics analysis techniques utilized in clinical and life science research applications.

We employed approximately 2,500 people as of October 31, 2018 in our diagnostics and genomics business.

Diagnostics and Genomics Market

Within the diagnostics and genomics business, we focus primarily on the diagnostics and clinical market. A significant part of our clinical diagnostic customers are in pathology labs throughout the world. Our high-quality, automated pathology tissue staining platforms and solutions are used most heavily by the large labs located in hospitals, medical centers, and reference labs. The market is skewed towards mature economies, with most of the market in North America, Western Europe and Japan. The mix is changing, however, as emerging markets increase spending on human health.

The clinical market for genomics consists of high complexity clinical labs performing patient testing, including "for-profit" reference laboratories, hospital labs, and molecular diagnostic companies. While these labs primarily purchase in vitro diagnostics ("IVD") labeled testing kits, they often develop and validate their own molecular based tests. Analyte Specific Reagents ("ASRs") are often used by these labs.

Diagnostics and Genomics Products

Our products fall into eight main areas of work: pathology products, specific proteins and flow reagents, companion diagnostics, target enrichment, cytogenetic research solutions and microarrays, PCR and qPCR instrumentation and molecular biology reagents, nucleic acid solutions and automated electrophoresis and microfluidics.

Pathology

This area consists of routine clinical solutions for tissue based cancer diagnostics with solutions that comprise antibodies, reagents, instruments and software targeting both primary and advanced cancer diagnostics. Our CoverStainer and Artisan based product families target primary cancer diagnostics through hematoxylin and eosin staining as well as special stains for additional insights and detection of potentially carcinogenic tissue. In the fourth quarter of 2013, we launched our combined IHC/ISH platform, Dako Omnis. The Dako Omnis and Autostainer based IHC solution and Instant Quality Fluorescence In Situ Hybridization ("IQFISH") technologies provide advanced tumor typing through investigation of protein and gene expression. These products also include companion diagnostic tests that are used to help identify patients most likely to benefit from a specific targeted therapy.

Specific Proteins and Flow Reagents

Our reagent OEM business is a provider of clinical diagnostic products within the areas of specific proteins for turbidimetry and reagents for flow cytometry. These are sold to OEM customers as customized reagent solutions supplied to top IVD companies or through retail partners.

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Companion Diagnostics

In our companion diagnostics business, we partner with a number of major pharmaceutical companies to develop new potential pharmacodiagnostics, which may be used to identify patients most likely to benefit from a specific targeted therapy.

Target Enrichment

Agilent continues to be a strong player in the next generation sequencing market. We provide a target enrichment portfolio composed of two main platforms, SureSelect and HaloPlex, both enabling customers to select specific target regions of the genome for sequencing. Customers can customize our products for their regions of interest using the SureDesign software, or they can choose from a wide range of catalog products, including gene panels for specific applications and Exome designs, which allow analysis of the entire coding sequences of the genome. After preparing samples with SureSelect and HaloPlex, products can be sequenced in the main next generation sequencing platforms available in the market. The technologies provide an easy sample prep workflow that can be automated with the Agilent Bravo platform for scalability. HaloPlex provides less-than-24-hours fast workflow, which makes it suitable for labs that require fast turnaround time from sample to results. These products are used for mutation detection and genotyping. Results can be easily analyzed using Agilent software solutions GeneSpring or SureCall. Our solutions also enable clinical labs to identify DNA variants associated with genetic diseases and help direct cancer therapy.

Cytogenetic Research Solutions and Microarrays

Agilent is a leading provider of microarrays for comparative genomic hybridization ("CGH"), mostly used by customers in cytogenetic laboratories. The arrays allow customers to detect genome-wide copy number alterations, with high levels of resolution (from entire chromosomal copy number changes to specific microdeletions or duplications). The arrays are offered in many formats allowing the customers to choose from different levels of resolution and number of samples per arrays. Arrays can also be customized using the SureDesign software. In addition to the microarrays, Agilent's solution includes reagents for sample processing, hardware for reading the microarrays, and software to help users view the data in a meaningful way. In addition to the CGH portfolio, the cytogenetics solution comprises a line of oligonucleotide probes for fluorescent in situ hybridization ("FISH") called SureFISH. Over 400 probes are available in our catalog, covering most relevant regions in the genome. Cytogenetic labs can use SureFISH probes to detect specific translocations or copy number changes in samples. Additionally, Agilent provides a wide range of microarrays to the research market for different types of applications: gene expression, microRNA, methylation, splice variants, and chromatin immunoprecipitation applications. Arrays are offered as catalog designs or customizable designs, with no minimum order size and short delivery time, which differentiates us from other vendors and enables researchers the maximum flexibility in their studies. Our end-to-end solution includes reagents for sample preparation and microarray processing; hardware for sample QC and high-throughput microarray scanning; microarrays on industry-standard 1" x 3" glass slides for key applications; custom microarray design services; and GeneSpring and CytoGenomics software products for data analysis.

PCR and qPCR Instrumentation and Molecular Biology Reagents

Polymerase chain reaction ("PCR") is a standard laboratory method used to amplify the amount of genetic material of a given sample to enable further interrogation. Quantitative PCR ("qPCR") or real time PCR is also a standard method used in genomic research facilities to measure the amount of a specific nucleic acid sequence within a sample. There are several applications for qPCR, among the most common are identifying the expression level of a specific gene, or calculating the amount of a specific pathogen present in a sample. Agilent offers a complete portfolio of PCR & qPCR instruments, as well as specialty enzymes for amplifying difficult sample types. In addition to PCR and qPCR enzymes, Agilent offers a wide range of molecular biology reagents including tools for cloning and mutagenesis applications.

Nucleic Acid Solutions

Our Nucleic Acid Solutions division ("NASD") is a contract manufacturing and development services business with equipment and expertise focused on mid to large scale production of synthesized oligonucleotide APIs under pharmaceutical GMP conditions for an emerging class of drugs that utilize oligonucleotide molecules for disease therapy. These drugs have advanced from single strand DNA molecules to complex, highly modified molecules including antisense, aptamers, double-stranded RNA, and RNA mixtures. These advancements in the technology have greatly improved the efficacy of delivery and stability of the oligos in-vivo. NASD offers industry leading experience to efficiently advance our customer's oligo drug candidates from clinical trials to commercial launch with a common goal of patient health and safety.

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Automated Electrophoresis and Microfluidics

Automated electrophoresis is a separation technique for bio molecules such as proteins, peptides and nucleic acids (RNA and DNA) and is used to determine the identity of a molecule by either size or charge. It is widely used as a QC tool to check sample integrity prior to subsequent analysis. Prominent examples are nucleic acid preparation products in front of polymerase chain reaction, NGS and microarrays.

Diagnostics and Genomics Customers

We had approximately 11,000 customers for our diagnostics and genomics business in fiscal 2018. No single customer represented a material amount of the net revenue of the diagnostics and genomics business.

Diagnostics and Genomics Sales, Marketing and Support

The diagnostics and genomics channels focus on the therapeutics and human disease research customer base (pharma, biotech, CRO, CMO and generics), clinical customer base (pathology labs and high complexity clinical testing labs) and on emerging life sciences opportunities in life science research institutes. We deploy a multi-channel approach, marketing products to our customers through direct sales, electronic commerce, resellers, manufacturers' representatives and distributors. We primarily use direct sales to market our solutions to our pharmaceutical, biopharmaceutical and clinical accounts. Sales agents supplement direct sales by providing broader geographic coverage and coverage of smaller accounts. Our active reseller program augments our ability to provide more complete solutions to our customers. We sell our consumable products through distributors, telesales, electronic commerce and direct sales. We utilize telesales for more mature product lines, as well as for reorders of reagent products.

Diagnostics and Genomics Manufacturing

Our manufacturing supports our diverse product range and customer-centric focus. We assemble highly configurable products to individual customer orders and make standard products to stock. We employ advanced manufacturing techniques and supply chain management systems to reduce costs and manufacturing cycle times. We selectively use third parties to provide some supply chain processes for manufacturing, warehousing and logistics. We have manufacturing facilities in California, Colorado and Texas in the U.S. Outside of the U.S., we have manufacturing facilities in Denmark and Malaysia. Our FDA registered sites include California, Colorado, Texas and Denmark. We utilize just-in-time manufacturing and so typically do not maintain a high level of inventory.

Diagnostics and Genomics Competition

The markets for diagnostics and genomics analytical products in which we compete are characterized by evolving industry standards and intense competition. Our principal competitors in the diagnostics and genomics arena include: Roche Ventana Medical Systems, Inc., a member of the Roche Group, Leica Biosystems, Inc., a division of Danaher Corporation, Abbott Laboratories, Illumina, Inc. and Affymetrix, Inc., a division of Thermo Fisher Scientific Inc. Agilent competes on the basis of product performance, reliability, support quality, applications expertise, whole solution offering, global channel coverage and price.

Diagnostics and Genomics Government Regulation

Some of the products the diagnostics and genomics business sells are subject to regulatory approval by the FDA and other regulatory bodies throughout the world. These regulations govern a wide variety of product related activities, from quality management, design and development to labeling, manufacturing, promotion, sales and distribution. We continually invest in our manufacturing infrastructure to gain and maintain certifications necessary for the level of clearance.

Agilent CrossLab Business

The Agilent CrossLab business spans the entire lab with its extensive consumables and services portfolio, which is designed to improve customer outcomes. The majority of the portfolio is vendor neutral, meaning Agilent can serve and supply customers regardless of their instrument purchase choices. Solutions range from chemistries and supplies to services and software helping to connect the entire lab. Key product categories in consumables include GC and LC columns, sample preparation products, custom chemistries, and a large selection of laboratory instrument supplies. Services include startup, operational, training and compliance support, software as a service, as well as asset management and consultative services that help increase customer productivity. Custom service and consumable bundles are tailored to meet the specific application needs of various industries and to keep instruments fully operational and compliant with the respective industry requirements.

Our Agilent CrossLab business employed approximately 5,100 people as of October 31, 2018.

Agilent CrossLab Markets

The Pharmaceutical, Biotechnology, CRO & CMO Market. Our services and consumable products support customers in this market that consists of “for-profit” companies who participate across the pharmaceutical value chain in the areas of therapeutic research, discovery and development, clinical trials, manufacturing and quality assurance and quality control. One sub-segment of this market is core and emerging pharmaceutical companies (“pharma”). A second sub-segment includes biotechnology companies (“biotech”), contract research organizations (“CROs”) and contract manufacturing organizations (“CMOs”). Biotech companies and, to a somewhat lesser extent, CROs and CMOs typically participate in specific points in the pharmaceutical industry value chain. Additionally, due to the relatively low drug efficacy within oncology, pharma companies are partnering with diagnostic companies to bring validated tests to the market with their new drugs.

The Academic and Government Market. Our services and consumable products support customers in this market that consists primarily of “not-for-profit” organizations and includes academic institutions, large government institutes and privately funded organizations. The academic and government market plays an influential role in technology adoption and therapeutic developments for pharmaceutical and molecular diagnostics companies. After decades of investment in basic biomedical research by government funding bodies, the focus has widened to include translational research - multidisciplinary scientific efforts directed at accelerating therapy development.

The Chemical & Energy Market. The natural gas and petroleum refining markets use our services and consumable products to support their quality control and environmental safety reviews.

The Environmental & Forensics Market. Our services and consumable products support the environmental industry customers that perform laboratory and field analysis of chemical pollutants in air, water, soil and solid waste. Environmental industry customers include all levels of government, the industrial and manufacturing sectors, engineering and consulting companies, commercial testing laboratories and colleges and universities. Our services and consumable products also support drug testing and forensics laboratories that are involved with analyzing evidence associated with crime, screening athletes for performance enhancing drugs, analyzing samples for recreational drugs, or detecting and identifying biological and chemical warfare agents. Customers include local, state, federal, and international law enforcement agencies and commercial testing laboratories.

The Food Market. Our services and consumable products support the food production chain, including incoming inspection, new product development, quality control and assurance, and packaging.

The Diagnostics and Clinical Market. Our services and consumable products support clinical diagnostic customers in pathology labs throughout the world. The market is skewed towards the mature economies, with most of the market in North America, Western Europe and Japan. The mix is changing, however, as emerging markets increase spending on human health.

Agilent CrossLab Products and Applications

Chemistries and Supplies

We offer a broad range of consumable products, which support our technology platforms, including sample preparation consumables such as solid phase extraction ("SPE") and filtration products, self-manufactured GC and LC columns, chemical standards, and instrument replacement parts. Consumable products also include scientific instrument parts and supplies such as filters and fittings for GC systems; xenon lamps and cuvettes for UV-Vis-NIR, fluorescence, FT-IR and Raman spectroscopy instruments; and graphite furnace tubes, hollow cathode lamps and specialized sample introduction glassware for our AA, ICP-OES and ICP-MS products.

Services and Support

We offer a wide range of startup, operational, educational and compliance support services for our measurement and data handling systems. Our support services include maintenance, troubleshooting, repair and training for all of our chemical and bioanalytical instrumentation hardware and software products. Special service bundles have also been designed to meet the specific application needs of various industries. As customers continue to outsource laboratory operations and consolidate suppliers, our enterprise services consist of a broad portfolio of integrated laboratory management services including instrument services, lab supply management, asset management, procurement, informatics and scientific services.

Remarketed Instruments

We refurbish and resell certified pre-owned instruments to value-oriented customers who demand Agilent quality and performance at a budget conscious price.

Agilent CrossLab Customers

We had approximately 51,000 Agilent CrossLab customers in fiscal 2018 and no single customer represented a material amount of the net revenue of the Agilent CrossLab business. A significant number of our Agilent CrossLab customers are also customers of our life sciences and applied markets business.

The service and consumables business is mostly recurring in nature, and is not as susceptible to market seasonality and industry cycles in comparison to our instrument businesses. The vendor neutral portion of the portfolio allows the business to perform relatively independent from our instrument business.

Agilent CrossLab Sales, Marketing and Support

We deploy a multi-channel approach, marketing products and services to our customers through direct sales, electronic commerce, resellers, manufacturers' representatives and distributors. We primarily use direct sales to market our solutions to our large accounts. Sales agents supplement direct sales by providing broader geographic coverage and coverage of smaller accounts. Our active reseller program augments our ability to provide more complete solutions to our customers. We utilize telesales to enhance the transactional sales model of our products. All channels are supported by technical product and application specialists to meet our customer's specific requirements.

We deliver our support services to customers in a variety of ways, including on-site assistance with repair or exchange of returned products, telephone support and self-diagnostic services provided over the Internet. We also offer special industry-focused service bundles that are designed to meet the specific needs of hydrocarbon processing, environmental, pharmaceutical and biopharmaceutical customers to keep instruments fully operational and compliant with the respective industry requirements. Our products typically come with standard warranties, and extended warranties are available for additional cost.

Agilent CrossLab Manufacturing

Our primary manufacturing sites for the consumables business are in California and Delaware in the U.S., and in the Netherlands and the United Kingdom outside of the U.S. Our direct service delivery organization is regionally based operating in 30 countries.

Agilent CrossLab Competition

Our principal competitors in the services and consumable products arena include many of our competitors from the instrument business, such as: Danaher Corporation, PerkinElmer, Inc., Shimadzu Corporation, Thermo Fisher Scientific Inc. and Waters Corporation, as well as numerous niche consumables and service providers. Agilent competes on the basis of product performance, reliability, support quality, applications expertise, global channel coverage and price.

Agilent Technologies Research Laboratories

Agilent Technologies Research Laboratories ("Research Labs") is our research organization based in Santa Clara, California. The Research Labs create competitive advantage through high-impact technology, driving market leadership and growth in Agilent's core businesses and expanding Agilent's footprint into adjacent markets. At the cross-roads of the organization, the Research Labs are able to identify and enable synergies across Agilent's businesses to create competitive differentiation and compelling customer value.

The technical staff have advanced degrees that cover a wide range of scientific and engineering fields, including biology, chemistry, distributed measurement, image processing, mathematics, nano/microfabrication, microfluidics, software, physics and physiology.

Global Infrastructure Organization

We provide support to our businesses through our global infrastructure organization. This support includes services in the areas of finance, tax, treasury, legal, real estate, insurance services, workplace services, human resources, information technology services, order administration and other corporate infrastructure expenses. Generally, these organizations are managed from Santa Clara, California, with operations and services provided worldwide. As of the end of October 2018, our global infrastructure organization employed approximately 2,700 people worldwide.

Agilent Order Fulfillment Organizations

Our order fulfillment and supply chain organization ("OFS") focuses on order fulfillment and supply chain operations in our businesses. OFS provides resources for manufacturing, engineering and strategic sourcing to our respective businesses. In general, OFS employees are dedicated to specific businesses and the associated costs are directly allocated to those businesses.

The following discussions of Research and Development, Backlog, Intellectual Property, Materials, Environmental and Acquisition and Disposal of Material Assets include information common to each of our businesses.

Research and Development

We anticipate that we will continue to have significant R&D expenditures in order to maintain our competitive position with a continuing flow of innovative, high-quality products and services. Our research and development efforts focus on potential new products and product improvements covering a wide variety of technologies, none of which is individually significant to our operations. Our research seeks to improve on various technical competencies in software, systems and solutions, life sciences and diagnostics. In each of these research fields, we conduct research that is focused on specific product development for release in the short-term as well as other research that is intended to be the foundation for future products over a longer time-horizon. Most of our product development research is designed to improve products already in production, focus on major new product releases, and develop new product segments for the future. We remain committed to invest significantly in research and development and have focused our development efforts on key strategic opportunities to align our business with available markets and position ourselves to capture market share.

Backlog

We believe that backlog is not a meaningful indicator of future business prospects for our business segments since a significant portion of our revenue for a given quarter is derived from the current quarter's orders. Therefore, we believe that backlog information is not material to an understanding of our business.

Intellectual Property

We generate patent and other intellectual property rights covering significant inventions and other innovations in order to create a competitive advantage. While we believe that our licenses, patents and other intellectual property rights have value, in

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general no single license, patent or other intellectual property right is in itself material. In addition, our intellectual property rights may be challenged, invalidated or circumvented or may otherwise not provide significant competitive advantage.

Materials

Our life sciences and applied markets, diagnostics and genomics and Agilent CrossLab businesses all purchase materials from thousands of suppliers on a global basis. Some of the parts that require custom design work are not readily available from alternate suppliers due to their unique design or the length of time necessary for design work. Our long-term relationships with suppliers allow us to proactively manage technology road maps and product discontinuance plans and monitor their financial health. To address any potential disruption in our supply chain, we use a number of techniques, including qualifying multiple sources of supply and redesign of products for alternative components. In addition, while we generally attempt to keep our inventory at minimal levels, we do purchase incremental inventory as circumstances warrant to protect the supply chain.

Environmental

Our R&D, manufacturing and distribution operations involve the use of hazardous substances and are regulated under international, federal, state and local laws governing health and safety and the environment. We apply strict standards for protection of the environment and occupational health and safety to sites inside and outside the U.S., even if not subject to regulation imposed by foreign governments. We believe that our properties and operations at our facilities comply in all material respects with applicable environmental laws and occupational health and safety laws. We are also regulated under a number of international, federal, state, and local laws regarding recycling, product packaging and product content requirements. We believe we are substantially in compliance with such environmental, product content/disposal and recycling laws.

We maintain a comprehensive Environmental Site Liability insurance policy which may cover certain clean-up costs or legal claims related to environmental contamination. This policy covers specified active, inactive and divested locations.

Acquisition and Disposal of Material Assets

In 2018, we acquired seven businesses, for a combined purchase price of approximately \$536 million. The largest of which was Advanced Analytical Technologies, Inc. ("AATI") for approximately \$268 million in cash. These acquisitions were not material individually or in aggregate.

Executive Officers of the Registrant

The names of our current executive officers and their ages, titles and biographies appear below:

Henrik Ancher-Jensen, 53, has served as Senior Vice President, Agilent and President, Order Fulfillment since September 2013. From September 2012 to September 2013, Mr. Ancher-Jensen served as our Vice President, Global Product Supply, Diagnostics and Genomics Group. From September 2010 to September 2012 he served as Corporate Vice President, Global Operations of Dako A/S, a Danish diagnostics company, and as Dako's Vice President, Supply Chain and Chief Information Officer from 2006 to September 2010. Prior to joining Dako, he spent more than 15 years in senior management roles and management consulting with Chr. Hansen, Deloitte Consulting and NVE.

Mark Doak, 63, has served as our Senior Vice President, Agilent and President, Agilent CrossLab Group (formerly a group within the Life Sciences & Applied Markets Group) since September 2014. From August 2008 to September 2014, Mr. Doak served as our Vice President and General Manager of the Services and Support Division. Prior to that, he held several senior management positions across functions in marketing, quality and services.

Rodney Gonsalves, 53, has served as our Vice President, Corporate Controllershship and Chief Accounting Officer since May 2015. From September 2009 to May 2015, Mr. Gonsalves served as Vice President and operational CFO for various business groups within the Company, most recently for the Life Sciences and Applied Markets Group. Prior to that, Mr. Gonsalves served in various capacities for Agilent, including as vice president of Investor Relations, controller, corporate governance and customer financing in Agilent's Global Infrastructure Organization, and controller for the Photonics Systems Business Unit. Before joining Agilent, Mr. Gonsalves held a variety of positions in finance with Hewlett-Packard Co.

Dominique P. Grau 59, has served as our Senior Vice President, Human Resources since August 2014. From May 2012 to August 2014 Mr. Grau served as Vice President, Worldwide Human Resources. Prior to that, he served as Vice President, Compensation, Benefits and HR Services from May 2006 to May 2012. Mr. Grau had previously served in various capacities for Agilent and Hewlett-Packard Company.

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Robert W. McMahon, 50, has served as our Senior Vice President since August 2018 and Chief Financial Officer since September 2018. He previously served as the Chief Financial Officer of Hologic, Inc., a medical technology company from May 2014 to August 2018. Prior to Hologic, Mr. McMahon spent 20 years with Johnson & Johnson most recently as Worldwide Vice President of Finance and Business Development for Ortho Clinical Diagnostics a division of Johnson & Johnson's Medical Device and Diagnostics Group.

Michael R. McMullen, 57, has served as Chief Executive Officer since March 2015 and as President since September 2014. From September 2014 to March 2015 he also served as Chief Operating Officer. From September 2009 to September 2014 he served as Senior Vice President, Agilent and President, Chemical Analysis Group. Prior to that, he served in various capacities for Agilent, including as our Vice President and General Manager of the Chemical Analysis Solutions Unit of the Life Sciences and Chemical Analysis Group and Country Manager for Agilent's China, Japan and Korea Life Sciences and Chemical Analysis Group. Prior to that, Mr. McMullen served as our Controller for the Hewlett-Packard Company and Yokogawa Electric Joint Venture from July 1996 to March 1999. Since September 2018, Mr. McMullen has served as a member of the Board of Directors of Coherent, Inc.

Samraat S. Raha, 46, has served as our Senior Vice President, Agilent and President, Diagnostics and Genomics Group since April 2018. From May 2017 to April 2018, Mr. Raha served as our Senior Vice President, Strategy and Corporate Development. From June 2013 to January 2017 he served as Vice President, Global Marketing for Illumina, Inc. and from 2008 to 2012 he served as Vice President and General Manager, Genomic Assays / NextGen qPCR for Life Technologies, Inc.

Michael Tang, 44, has served as our Senior Vice President, General Counsel and Secretary since January 2016. From May 2015 to January 2016 he served as Vice President, Assistant General Counsel and Secretary and from November 2013 to April 2015 he served as Vice President, Assistant General Counsel and Assistant Secretary. From March 2012 to October 2013 he served as Business Development Manager in Agilent's Corporate Development group. Prior to that, Mr. Tang served in various capacities in Agilent's legal department. Before joining Agilent, Mr. Tang worked at Wilson Sonsini Goodrich & Rosati, a California law firm and Fenwick & West LLP, a California, law firm.

Jacob Thaysen, 43, has served as Senior Vice President, Agilent and President, Life Sciences and Applied Markets Group, since April 2018. From November 2014 to April 2018 he served as Senior Vice President, Agilent and President, Diagnostics and Genomics Group. From October 2013 to November 2014 he served as Vice President and General Manager of the Diagnostics and Genomics business. Prior to that he served as Vice President and General Manager of the Genomics Solutions unit from January 2013 to October 2013. Before joining Agilent, he served in various capacities at Dako A/S, a Danish diagnostics company, including as Corporate Vice President of R&D, Vice President, System Development, R&D, Vice President, Strategic Marketing and Vice President, Global Sales Operations. Prior to Dako, Mr. Thaysen worked as a management consultant and Chief Technical Officer and founder of a high-tech start-up company.

Investor Information

We are subject to the informational requirements of the Securities Exchange Act of 1934 ("Exchange Act"). Therefore, we file periodic reports, proxy statements and other information with the Securities and Exchange Commission ("SEC"). The SEC maintains an Internet site (<http://www.sec.gov>) that contains reports, proxy and information statements and other information regarding issuers that file electronically.

Our financial and other information can be accessed at our Investor Relations website. The address is www.investor.agilent.com. We make available, free of charge, copies of our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after filing such material electronically or otherwise furnishing it to the SEC.

Our Amended and Restated Bylaws, Corporate Governance Standards, the charters of our Audit and Finance Committee, our Compensation Committee, our Executive Committee and our Nominating/Corporate Governance Committee, as well as our Standards of Business Conduct (including code of ethics provisions that apply to our principal executive officer, principal financial officer, principal accounting officer and senior financial officers) are available on our website at www.investor.agilent.com under "Corporate Governance". These items are also available in print to any stockholder in the United States and Canada who requests them by calling (877) 942-4200. This information is also available by writing to the company at the address on the cover of this Annual Report on Form 10-K.

Item 1A. Risk Factors

Our operating results and financial condition could be harmed if the markets into which we sell our products decline or do not grow as anticipated.

Visibility into our markets is limited. Our quarterly sales and operating results are highly dependent on the volume and timing of orders received during the fiscal quarter, which are difficult to forecast and may be cancelled by our customers. In addition, our revenue and earnings forecasts for future fiscal quarters are often based on the expected seasonality of our markets. However, the markets we serve do not always experience the seasonality that we expect as customer spending policies and budget allocations, particularly for capital items, may change. Any decline in our customers' markets or in general economic conditions would likely result in a reduction in demand for our products and services. Also, if our customers' markets decline, we may not be able to collect on outstanding amounts due to us. Such declines could harm our consolidated financial position, results of operations, cash flows and stock price, and could limit our profitability. Also, in such an environment, pricing pressures could intensify. Since a significant portion of our operating expenses is relatively fixed in nature due to sales, research and development and manufacturing costs, if we were unable to respond quickly enough these pricing pressures could further reduce our operating margins.

If we do not introduce successful new products and services in a timely manner to address increased competition through frequent new product and service introductions, rapid technological changes and changing industry standards, our products and services may become obsolete, and our operating results may suffer.

We generally sell our products in industries that are characterized by increased competition through frequent new product and service introductions, rapid technological changes and changing industry standards. Without the timely introduction of new products, services and enhancements, our products and services may become technologically obsolete over time, in which case our revenue and operating results could suffer. The success of our new products and services will depend on several factors, including our ability to:

- properly identify customer needs and predict future needs;
- innovate and develop new technologies, services and applications;
- appropriately allocate our research and development spending to products and services with higher growth prospects;
- successfully commercialize new technologies in a timely manner;
- manufacture and deliver new products in sufficient volumes and on time;
- differentiate our offerings from our competitors' offerings;
- price our products competitively;
- anticipate our competitors' development of new products, services or technological innovations; and
- control product quality in our manufacturing process.

In addition, if we fail to accurately predict future customer needs and preferences or fail to produce viable technologies, we may invest in research and development of products and services that do not lead to significant revenue, which would adversely affect our profitability. Even if we successfully innovate and develop new and enhanced products and services, we may incur substantial costs in doing so, and our operating results may suffer. In addition, promising new products may fail to reach the market or realize only limited commercial success because of real or perceived concerns of our customers. Furthermore, as we collaborate with pharmaceutical customers to develop drugs such as companion diagnostics assays or providing drug components like active pharmaceutical ingredients, we face risks that those drug programs may be cancelled upon clinical trial failures.

General economic conditions may adversely affect our operating results and financial condition.

Our business is sensitive to negative changes in general economic conditions, both inside and outside the United States. Slower global economic growth and uncertainty in the markets in which we operate may adversely impact our business resulting in:

- reduced demand for our products, delays in the shipment of orders, or increases in order cancellations;
- increased risk of excess and obsolete inventories;
- increased price pressure for our products and services; and
- greater risk of impairment to the value, and a detriment to the liquidity, of our investment portfolio.

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Failure to adjust our purchases due to changing market conditions or failure to accurately estimate our customers' demand could adversely affect our income.

Our income could be harmed if we are unable to adjust our purchases to reflect market fluctuations, including those caused by the seasonal nature of the markets in which we operate. The sale of our products and services are dependent, to a large degree, on customers whose industries are subject to seasonal trends in the demand for their products. During a market upturn, we may not be able to purchase sufficient supplies or components to meet increasing product demand, which could materially affect our results. In the past we have experienced a shortage of parts for some of our products. In addition, some of the parts that require custom design are not readily available from alternate suppliers due to their unique design or the length of time necessary for design work. Should a supplier cease manufacturing such a component, we would be forced to reengineer our product. In addition to discontinuing parts, suppliers may also extend lead times, limit supplies or increase prices due to capacity constraints or other factors. In order to secure components for the production of products, we may continue to enter into non-cancelable purchase commitments with vendors, or at times make advance payments to suppliers, which could impact our ability to adjust our inventory to declining market demands. If demand for our products is less than we expect, we may experience additional excess and obsolete inventories and be forced to incur additional expenses.

Demand for some of our products and services depends on the capital spending policies of our customers, research and development budgets and on government funding policies.

Our customers include pharmaceutical companies, laboratories, universities, healthcare providers, government agencies and public and private research institutions. Many factors, including public policy spending priorities, available resources, mergers and consolidations, institutional and governmental budgetary policies and spending priorities, and product and economic cycles, have a significant effect on the capital spending policies of these entities. Fluctuations in the research and development budgets at these organizations could have a significant effect on the demand for our products and services. Research and development budgets fluctuate due to changes in available resources, consolidation, spending priorities, general economic conditions and institutional and governmental budgetary policies. The timing and amount of revenue from customers that rely on government funding or research may vary significantly due to factors that can be difficult to forecast, including changes in spending authorizations and budgetary priorities for our products and services. If demand for our products and services is adversely affected, our revenue and operating results would suffer.

Economic, political, foreign currency and other risks associated with international sales and operations could adversely affect our results of operations.

Because we sell our products worldwide, our business is subject to risks associated with doing business internationally. We anticipate that revenue from international operations will continue to represent a majority of our total revenue. International revenue and costs are subject to the risk that fluctuations in foreign currency exchange rates could adversely affect our financial results when translated into U.S. dollars for financial reporting purposes. The favorable effects of changes in foreign currency exchange rates has increased revenues by approximately 2 percentage points in the year ended October 31, 2018. When movements in foreign currency exchange rates have a positive impact on revenue it will also have a negative impact on our costs and expenses. In addition, many of our employees, contract manufacturers, suppliers, job functions, outsourcing activities and manufacturing facilities are located outside the United States. Accordingly, our future results could be harmed by a variety of factors, including:

- interruption to transportation flows for delivery of parts to us and finished goods to our customers;
- changes in a specific country's or region's political, economic or other conditions;
- changes in diplomatic and trade relationships, including new tariffs, trade protection measures, import or export licensing requirements, new or different customs duties trade embargoes and sanctions and other trade barriers;
- tariffs imposed by the U.S. on goods from other countries and tariffs imposed by other countries on U.S. goods, including the tariffs recently enacted and proposed by the U.S. government on various imports from China and by the Chinese government on certain U.S. goods, the scope and duration of which, if implemented, remains uncertain;
- negative consequences from changes in tax laws;
- difficulty in staffing and managing widespread operations;
- differing labor regulations;
- differing protection of intellectual property;
- unexpected changes in regulatory requirements; and
- geopolitical uncertainty or turmoil, including terrorism and war.

We sell our products into many countries and we also source many components and materials for our products from various countries. Tariffs recently announced and implemented could have negative impact on our business, results of operations and

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financial condition. Further, additional tariffs which have been proposed or threatened and the potential escalation of a trade war and retaliatory measures could have a material adverse effect on our business, results of operations and financial condition.

We centralized most of our accounting and tax processes to two locations: India and Malaysia. These processes include general accounting, cost accounting, accounts payable, accounts receivables and tax functions. If conditions change in those countries, it may adversely affect operations, including impairing our ability to pay our suppliers and collect our receivables. Our results of operations, as well as our liquidity, may be adversely affected and possible delays may occur in reporting financial results.

In addition, although the majority of our products are priced and paid for in U.S. dollars, a significant amount of certain types of expenses, such as payroll, utilities, tax, and marketing expenses, are paid in local currencies. Our hedging programs reduce, but do not always entirely eliminate, within any given twelve-month period, the impact of currency exchange rate movements, and therefore fluctuations in exchange rates, including those caused by currency controls, could impact our business, operating results and financial condition by resulting in lower revenue or increased expenses. For expenses beyond that twelve-month period, our hedging strategy does not mitigate our exposure. In addition, our currency hedging programs involve third party financial institutions as counterparties. The weakening or failure of financial institution counterparties may adversely affect our hedging programs and our financial condition through, among other things, a reduction in available counterparties, increasingly unfavorable terms, and the failure of the counterparties to perform under hedging contracts.

Our strategic initiatives to adjust our cost structure could have long-term adverse effects on our business and we may not realize the operational or financial benefits from such actions.

We have implemented multiple strategic initiatives across our businesses to adjust our cost structure, and we may engage in similar activities in the future. These strategic initiatives and our regular ongoing cost reduction activities may distract management, could slow improvements in our products and services and limit our ability to increase production quickly if demand for our products increases. In addition, delays in implementing our strategic initiatives, unexpected costs or failure to meet targeted improvements may diminish the operational and financial benefits we realize from such actions. Any of the above circumstances could have an adverse effect on our business and operating results and financial condition.

Our business will suffer if we are not able to retain and hire key personnel.

Our future success depends partly on the continued service of our key research, engineering, sales, marketing, manufacturing, executive and administrative personnel. If we fail to retain and hire a sufficient number of these personnel, we will not be able to maintain or expand our business. The markets in which we operate are very dynamic, and our businesses continue to respond with reorganizations, workforce reductions and site closures. We believe our pay levels are very competitive within the regions that we operate. However, there is an intense competition for certain highly technical specialties in geographic areas where we continue to recruit, and it may become more difficult to hire and retain our key employees.

Our acquisitions, strategic investments and alliances, joint ventures, exiting of businesses and divestitures may result in financial results that are different than expected.

In the normal course of business, we frequently engage in discussions with third parties relating to possible acquisitions, strategic investments and alliances, joint ventures and divestitures, and generally expect to complete several transactions per year. In addition, we may decide to exit a particular business within our product portfolio. As a result of such transactions, our financial results may differ from our own or the investment community's expectations in a given fiscal quarter, or over the long term. We may have difficulty developing, manufacturing and marketing the products of a newly acquired company in a way that enhances the performance of our combined businesses or product lines. Acquired businesses may also expose us to new risks and new markets and we may have difficulty addressing these risks in a cost effective and timely manner. Transactions such as acquisitions have resulted, and may in the future result in, unexpected significant costs and expenses. In the future, we may be required to record charges to earnings during the period if we determine there is an impairment of goodwill or intangible assets, up to the full amount of the value of the assets, or, in the case of strategic investments and alliances, consolidate results, including losses, of third parties or write down investment values or loans and convertible notes related to the strategic investment.

Integrating the operations of acquired businesses within Agilent could be a difficult, costly and time-consuming process that involves a number of risks. Acquisitions and strategic investments and alliances may require us to integrate and collaborate with a different company culture, management team, business models, business infrastructure and sales and distribution methodologies and assimilate and retain geographically dispersed, decentralized operations and personnel. Depending on the size and complexity of an acquisition, our successful integration of the entity depends on a variety of factors, including introducing new products and meeting revenue targets as expected, the retention of key employees and key customers, increased exposure to

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certain governmental regulations and compliance requirements and increased costs and use of resources. Further, the integration of acquired businesses is likely to result in our systems and internal controls becoming increasingly complex and more difficult to manage. Any difficulties in the assimilation of acquired businesses into our control system could harm our operating results or cause us to fail to meet our financial reporting obligations.

Even if we are able to successfully integrate acquired businesses within Agilent, we may not be able to realize the revenue and other synergies and growth that we anticipated from the acquisition in the time frame that we expected, and the costs of achieving these benefits may be higher than what we expected. As a result, the acquisition and integration of acquired businesses may not contribute to our earnings as expected, we may not achieve our operating margin targets when expected, or at all, and we may not achieve the other anticipated strategic and financial benefits of such transactions.

A successful divestiture depends on various factors, including our ability to effectively transfer liabilities, contracts, facilities and employees to the purchaser, identify and separate the intellectual property to be divested from the intellectual property that we wish to keep and reduce fixed costs previously associated with the divested assets or business. In addition, if customers of the divested business do not receive the same level of service from the new owners, this may adversely affect our other businesses to the extent that these customers also purchase other Agilent products. In exiting a business, we may still retain liabilities associated with the support and warranty of those businesses and other indemnification obligations. All of these efforts require varying levels of management resources, which may divert our attention from other business operations. If we do not realize the expected benefits or synergies of such transactions, our consolidated financial position, results of operations, cash flows and stock price could be negatively impacted.

If we fail to maintain an effective system of internal controls, we may not be able to accurately report our financial results, which could lead to a loss of investor confidence in our financial statements and have an adverse effect on our stock price.

Effective internal controls are necessary for us to provide reliable and accurate financial statements and to effectively prevent fraud. We devote significant resources and time to comply with the internal control over financial reporting requirements of the Sarbanes Oxley Act of 2002 and continue to enhance our controls. However, we cannot be certain that we will be able to prevent future significant deficiencies or material weaknesses. Inadequate internal controls could cause investors to lose confidence in our reported financial information, which could have a negative effect on investor confidence in our financial statements, the trading price of our stock and our access to capital.

Our customers and we are subject to various governmental regulations. Compliance with or changes in such regulations may cause us to incur significant expenses, and if we fail to maintain satisfactory compliance with certain regulations, we may be forced to recall products and cease their manufacture and distribution, and we could be subject to civil or criminal penalties.

Our customers and we are subject to various significant international, federal, state and local regulations, including but not limited to regulations in the areas of health and safety, packaging, product content, employment, labor and immigration, import/export controls, trade restrictions and anti-competition. In addition, as a global organization, we are subject to data privacy and security laws, regulations, and customer-imposed controls in numerous jurisdictions as a result of having access to and processing confidential, personal, sensitive and/or patient health data in the course of our business. The EU's General Data Protection Regulation (GDPR), which became effective in May 2018, applies to all of our activities related to products and services that we offer to EU customers and workers. The GDPR established new requirements regarding the handling of personal data and includes significant penalties for non-compliance (including possible fines of up to 4 percent of total company revenue). Other governmental authorities around the world are considering similar types of legislative and regulatory proposals concerning data protection. Each of these privacy, security and data protection laws and regulations could impose significant limitations and increase our cost of providing our products and services where we process end user personal data and could harm our results of operations and expose us to significant fines, penalties and other damages.

We must also comply with complex foreign and U.S. laws and regulations, such as the U.S. Foreign Corrupt Practices Act, the U.K. Bribery Act, and other local laws prohibiting corrupt payments to governmental officials, anti-competition regulations and sanctions imposed by the U.S. Office of Foreign Assets Control and other similar laws and regulations. Violations of these laws and regulations could result in fines and penalties, criminal sanctions, restrictions on our business conduct and on our ability to offer our products in one or more countries, and could also materially affect our brand, our ability to attract and retain employees, our international operations, our business and our operating results. Although we have implemented policies and procedures designed to ensure compliance with these laws and regulations, there can be no assurance that our employees, contractors, or agents will not violate our policies.

These regulations are complex, change frequently and have tended to become more stringent over time. We may be required to incur significant expenses to comply with these regulations or to remedy any violations of these regulations. Any failure by us

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to comply with applicable government regulations could also result in the cessation of our operations or portions of our operations, product recalls or impositions of fines and restrictions on our ability to carry on or expand our operations. In addition, because many of our products are regulated or sold into regulated industries, we must comply with additional regulations in marketing our products. We develop, configure and market our products to meet customer needs created by these regulations. Any significant change in these regulations could reduce demand for our products, force us to modify our products to comply with new regulations or increase our costs of producing these products. If demand for our products is adversely affected or our costs increase, our operating results and business would suffer.

Our products and operations are also often subject to the rules of industrial standards bodies, like the International Standards Organization, as well as regulation by other agencies such as the FDA. We also must comply with work safety rules. If we fail to adequately address any of these regulations, our businesses could be harmed.

We are subject to extensive regulation by the FDA and certain similar foreign regulatory agencies, and failure to comply with such regulations could harm our reputation, business, financial condition and results of operations.

A number of our products are subject to regulation by the FDA and certain similar foreign regulatory agencies. In addition, a number of our products may in the future be subject to regulation by the FDA and certain similar foreign regulatory agencies. These regulations govern a wide variety of product-related activities, from quality management, design and development to labeling, manufacturing, promotion, sales and distribution. If we or any of our suppliers or distributors fail to comply with FDA and other applicable regulatory requirements or are perceived to potentially have failed to comply, we may face, among other things, warning letters, adverse publicity affecting both us and our customers; investigations or notices of non-compliance, fines, injunctions, and civil penalties; import or export restrictions; partial suspensions or total shutdown of production facilities or the imposition of operating restrictions; increased difficulty in obtaining required FDA clearances or approvals or foreign equivalents; seizures or recalls of our products or those of our customers; or the inability to sell our products. Any such FDA or other regulatory agency actions could disrupt our business and operations, lead to significant remedial costs and have a material adverse impact on our financial position and results of operations.

Some of our products are subject to particularly complex regulations such as regulations of toxic substances, and failure to comply with such regulations could harm our business.

Some of our products and related consumables are used in conjunction with chemicals whose manufacture, processing, distribution and notification requirements are regulated by the U.S. Environmental Protection Agency ("EPA") under the Toxic Substances Control Act, and by regulatory bodies in other countries under similar laws. The Toxic Substances Control Act regulations govern, among other things, the testing, manufacture, processing and distribution of chemicals, the testing of regulated chemicals for their effects on human health and safety and the import and export of chemicals. The Toxic Substances Control Act prohibits persons from manufacturing any chemical in the United States that has not been reviewed by EPA for its effect on health and safety, and placed on an EPA inventory of chemical substances. We must ensure conformance of the manufacturing, processing, distribution of and notification about these chemicals to these laws and adapt to regulatory requirements in all applicable countries as these requirements change. If we fail to comply with the notification, record-keeping and other requirements in the manufacture or distribution of our products, then we could be subject to civil penalties, criminal prosecution and, in some cases, prohibition from distributing or marketing our products until the products or component substances are brought into compliance.

Our business may suffer if we fail to comply with government contracting laws and regulations.

We derive a portion of our revenue from direct and indirect sales to U.S., state, local, and foreign governments and their respective agencies. Such contracts are subject to various procurement laws and regulations, and contract provisions relating to their formation, administration and performance. Failure to comply with these laws, regulations or provisions in our government contracts could result in the imposition of various civil and criminal penalties, termination of contracts, forfeiture of profits, suspension of payments, or suspension from future government contracting. If our government contracts are terminated, if we are suspended from government work, or if our ability to compete for new contracts is adversely affected, our business could suffer.

Our reputation, ability to do business and financial statements may be harmed by improper conduct by any of our employees, agents or business partners.

We cannot provide assurance that our internal controls and compliance systems will always protect us from acts committed by employees, agents or business partners of ours (or of businesses we acquire or partner with) that would violate U.S. and/or non-U.S. laws, including the laws governing payments to government officials, bribery, fraud, kickbacks and false claims, pricing, sales and marketing practices, conflicts of interest, competition, export and import compliance, money laundering and data privacy.

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In particular, the U.S. Foreign Corrupt Practices Act, the U.K. Bribery Act and similar anti-bribery laws in other jurisdictions generally prohibit companies and their intermediaries from making improper payments to government officials for the purpose of obtaining or retaining business, and we operate in many parts of the world that have experienced governmental corruption to some degree. Any such improper actions or allegations of such acts could damage our reputation and subject us to civil or criminal investigations in the United States and in other jurisdictions and related shareholder lawsuits, could lead to substantial civil and criminal, monetary and non-monetary penalties and could cause us to incur significant legal and investigatory fees. In addition, the government may seek to hold us liable as a successor for violations committed by companies in which we invest or that we acquire. We also rely on our suppliers to adhere to our supplier standards of conduct, and material violations of such standards of conduct could occur that could have a material effect on our business, reputation and financial statements.

Our retirement and post retirement pension plans are subject to financial market risks that could adversely affect our future results of operations and cash flows.

We have significant retirement and post retirement pension plan assets and obligations. The performance of the financial markets and interest rates impact our plan expenses and funding obligations. Significant decreases in market interest rates, decreases in the fair value of plan assets and investment losses on plan assets will increase our funding obligations and adversely impact our results of operations and cash flows.

The impact of consolidation and acquisitions of competitors is difficult to predict and may harm our business.

The life sciences industry is intensely competitive and has been subject to increasing consolidation. Consolidation in our industries could result in existing competitors increasing their market share through business combinations and result in stronger competitors, which could have a material adverse effect on our business, financial condition and results of operations. We may not be able to compete successfully in increasingly consolidated industries and cannot predict with certainty how industry consolidation will affect our competitors or us.

If we are unable to successfully manage the consolidation and streamlining of our manufacturing operations, we may not achieve desired efficiencies and our ability to deliver products to our customers could be disrupted.

Although we utilize manufacturing facilities throughout the world, we have been consolidating, and may continue to consolidate, our manufacturing operations to certain of our plants to achieve efficiencies and gross margin improvements. Additionally, we typically consolidate the production of products from our acquisitions into our supply chain and manufacturing processes, which are technically complex and require expertise to operate. If we are unable to establish processes to efficiently and effectively produce high quality products in the consolidated locations, we may not achieve the anticipated synergies and production may be disrupted, which could adversely affect our business and operating results.

Our operating results may suffer if our manufacturing capacity does not match the demand for our products.

Because we cannot immediately adapt our production capacity and related cost structures to rapidly changing market conditions, when demand does not meet our expectations, our manufacturing capacity may exceed our production requirements. If during an economic downturn we had excess manufacturing capacity, then our fixed costs associated with excess manufacturing capacity would adversely affect our gross margins, and operating results. If, during a general market upturn or an upturn in one of our segments, we cannot increase our manufacturing capacity to meet product demand, we may not be able to fulfill orders in a timely manner which could lead to order cancellations, contract breaches or indemnification obligations. This inability could materially and adversely limit our ability to improve our results.

Dependence on contract manufacturing and outsourcing other portions of our supply chain, including logistics and third-party package delivery services, may adversely affect our ability to bring products to market and damage our reputation. Dependence on outsourced information technology and other administrative functions may impair our ability to operate effectively.

As part of our efforts to streamline operations and to cut costs, we outsource aspects of our manufacturing processes and other functions and continue to evaluate additional outsourcing. If our contract manufacturers or other outsourcers fail to perform their obligations in a timely manner or at satisfactory quality levels, our ability to bring products to market and our reputation could suffer. For example, during a market upturn, our contract manufacturers may be unable to meet our demand requirements, which may preclude us from fulfilling our customers' orders on a timely basis. The ability of these manufacturers to perform is largely outside of our control. If one or more of the third-party package delivery providers experiences a significant disruption in services or institutes a significant price increase, we may have to seek alternative providers, our costs could increase and the delivery of our products could be prevented or delayed. Additionally, changing or replacing our contract manufacturers, logistics

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providers or other outsourcers could cause disruptions or delays. In addition, we outsource significant portions of our information technology ("IT") and other administrative functions. Since IT is critical to our operations, any failure to perform on the part of our IT providers could impair our ability to operate effectively. In addition to the risks outlined above, problems with manufacturing or IT outsourcing could result in lower revenue and unexecuted efficiencies, and impact our results of operations and our stock price.

Environmental contamination from past and ongoing operations could subject us to substantial liabilities.

Certain properties we have previously owned or leased are undergoing remediation for subsurface contaminations. Although we are indemnified for liability relating to the required remediation at some of those properties, we may be subject to liability if these indemnification obligations are not fulfilled. In other cases, we have agreed to indemnify the current owners of certain properties for liabilities related to contamination, including companies with which we have previously been affiliated such as HP, Inc., Hewlett-Packard Enterprise (formerly Hewlett-Packard Company) and Varian Medical Systems, Inc. Further, other properties we have previously owned or leased at which we have operated in the past, or for which we have otherwise contractually assumed, or provided indemnities for, certain actual or contingent environmental liabilities may or do require remediation. While we are not aware of any material liabilities associated with any potential environmental contamination at any of those properties or facilities, we may be exposed to material liability if environmental contamination at material levels is found to exist. In addition, in connection with the acquisition of certain companies, we have assumed other costs and potential or contingent liabilities for environmental matters. Any significant costs or liabilities could have an adverse effect on results of operations.

Our current and historical manufacturing processes and operations involve, or have involved, the use of certain substances regulated under various foreign, federal, state and local environment protection and health and safety laws and regulations. As a result, we may become subject to liabilities for environmental contamination and these liabilities may be substantial. Although our policy is to apply strict standards for environmental protection and health and safety at our sites inside and outside the United States, we may not be aware of all conditions that could subject us to liability. Failure to comply with these environmental protection and health and safety laws and regulations could result in civil, criminal, regulatory, administrative or contractual sanction, including fines, penalties or suspensions. If we have any violations of, or incur liabilities pursuant to these laws or regulations, our financial condition and operating results could be adversely affected.

Regulations related to "conflict minerals" may cause us to incur additional expenses and could limit the supply and increase the cost of certain metals used in manufacturing our products.

We are subject to the rules of the Securities and Exchange Commission ("SEC") which require disclosures by public companies of specified minerals, known as conflict minerals, that are necessary to the functionality or production of products manufactured or contracted to be manufactured. The rule, which requires an annual disclosure report to be filed with the SEC by May 31st of each year, requires companies to perform due diligence, disclose and report whether or not such minerals originate from the Democratic Republic of Congo or an adjoining country. There are costs associated with complying with these disclosure requirements, including for diligence in regards to the sources of any conflict minerals used in our products, in addition to the cost of remediation and other changes to products, processes, or sources of supply as a consequence of such verification activities. In addition, our ongoing implementation of these rules could adversely affect the sourcing, supply, and pricing of materials used in our products. The rule could affect sourcing at competitive prices and availability in sufficient quantities of certain minerals used in the manufacture of our products, including tin, tantalum, gold and tungsten. The number of suppliers who provide conflict-free minerals may be limited. In addition, there may be material costs associated with complying with the disclosure requirements, such as costs related to the due diligence process of determining the source of certain minerals used in our products, as well as costs of possible changes to products, processes, or sources of supply as a consequence of such verification activities. As our supply chain is complex and we use contract manufacturers for some of our products, we may not be able to sufficiently verify the origins of the relevant minerals used in our products through the due diligence procedures that we implement, which may harm our reputation. We may also encounter challenges to satisfy those customers who require that all of the components of our products be certified as conflict-free, which could place us at a competitive disadvantage if we are unable to do so.

Third parties may claim that we are infringing their intellectual property and we could suffer significant litigation or licensing expenses or be prevented from selling products or services.

From time to time, third parties may claim that one or more of our products or services infringe their intellectual property rights. We analyze and take action in response to such claims on a case by case basis. Any dispute or litigation regarding patents or other intellectual property could be costly and time-consuming due to the complexity of our technology and the uncertainty of intellectual property litigation and could divert our management and key personnel from our business operations. A claim of intellectual property infringement could force us to enter into a costly or restrictive license agreement, which might not be available under acceptable terms or at all, could require us to redesign our products, which would be costly and time-consuming, and/or

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could subject us to significant damages or to an injunction against the development and sale of certain of our products or services. Our intellectual property portfolio may not be useful in asserting a counterclaim, or negotiating a license, in response to a claim of intellectual property infringement. In certain of our businesses, we rely on third party intellectual property licenses and we cannot ensure that these licenses will continue to be available to us in the future or can be expanded to cover new products on favorable terms or at all.

Third parties may infringe our intellectual property and we may suffer competitive injury or expend significant resources enforcing our rights.

Our success depends in large part on our proprietary technology, including technology we obtained through acquisitions. We rely on various intellectual property rights, including patents, copyrights, trademarks and trade secrets, as well as confidentiality provisions and licensing arrangements, to establish our proprietary rights. If we do not enforce our intellectual property rights successfully our competitive position may suffer which could harm our operating results.

Our pending patent, copyright and trademark registration applications, may not be allowed or competitors may challenge the validity or scope of our patents, copyrights or trademarks. In addition, our patents, copyrights, trademarks and other intellectual property rights may not provide us with a significant competitive advantage.

We may need to spend significant resources monitoring and enforcing our intellectual property rights and we may not be aware of or able to detect or prove infringement by third parties. Our competitive position may be harmed if we cannot detect infringement and enforce our intellectual property rights quickly or at all. In some circumstances, we may choose to not pursue enforcement because an infringer has a dominant intellectual property position or for other business reasons. In addition, competitors might avoid infringement by designing around our intellectual property rights or by developing non-infringing competing technologies. Intellectual property rights and our ability to enforce them may be unavailable or limited in some countries which could make it easier for competitors to capture market share and could result in lost revenues. Furthermore, some of our intellectual property is licensed to others which may allow them to compete with us using that intellectual property.

Changes in tax laws, unfavorable resolution of tax examinations, or exposure to additional tax liabilities could have a material adverse effect on our results of operations, financial condition and liquidity.

We are subject to taxes in the U.S., Singapore and various foreign jurisdictions. Governments in the jurisdictions in which we operate implement changes to tax laws and regulations periodically. Any implementation of tax laws that fundamentally change the taxation of corporations in the U.S. or Singapore could materially impact our effective tax rate and could have a significant adverse impact on our financial results.

The 2017 United States Tax Cut and Jobs Act ("Tax Act") significantly changed the taxation of U.S. based multinational corporations. Our compliance with the Tax Act requires the use of estimates in our financial statements and exercise of significant judgment in accounting for its provisions. The implementation of the Tax Act requires interpretations and implementing regulations by the Internal Revenue Service, as well as state tax authorities. The legislation could be subject to potential amendments and technical corrections, any of which could materially lessen or increase certain adverse impacts of the legislation. As regulations and guidance evolve with respect to the Tax Act, and as we gather information and perform more analysis, our results may differ from previous estimates and may materially affect our financial position.

We are also subject to examinations of our tax returns by tax authorities in various jurisdictions around the world. We regularly assess the likelihood of adverse outcomes resulting from ongoing tax examinations to determine the adequacy of our provision for taxes. These assessments can require a high degree of judgment and estimation. Intercompany transactions associated with the sale of inventory, services, intellectual property and cost share arrangements are complex and affect our tax liabilities. The calculation of our tax liabilities involves dealing with uncertainties in the application of complex tax laws and regulations in multiple jurisdictions. There can be no assurance that the outcomes from ongoing tax examinations will not have an adverse effect on our operating results and financial condition. A difference in the ultimate resolution of tax uncertainties from what is currently estimated could have an adverse effect on our financial results and condition.

If tax incentives change or cease to be in effect, our income taxes could increase significantly.

We benefit from tax incentives extended to our foreign subsidiaries to encourage investment or employment. Several jurisdictions have granted us tax incentives which require renewal at various times in the future. The incentives are conditioned on achieving various thresholds of investments and employment, or specific types of income. Our taxes could increase if the incentives are not renewed upon expiration. If we cannot or do not wish to satisfy all or parts of the tax incentive conditions, we

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may lose the related tax incentive and could be required to refund tax incentives previously realized. As a result, our effective tax rate could be higher than it would have been had we maintained the benefits of the tax incentives.

We have outstanding debt and may incur other debt in the future, which could adversely affect our financial condition, liquidity and results of operations.

We currently have outstanding an aggregate principal amount of \$1.8 billion in senior unsecured notes. We also are party to a five-year unsecured revolving credit facility which expires in September 2019. On June 9, 2015, we increased the commitments under the existing credit facility by \$300 million and on July 14, 2017, the commitments under the existing credit facility were increased by an additional \$300 million so that the aggregate commitments under the facility now total \$1 billion. As of October 31, 2018, we had no borrowings outstanding under the credit facility. We may borrow additional amounts in the future and use the proceeds from any future borrowing for general corporate purposes, future acquisitions, expansion of our business or repurchases of our outstanding shares of common stock.

Our incurrence of this debt and increases in our aggregate levels of debt, may adversely affect our operating results and financial condition by, among other things:

- increasing our vulnerability to downturns in our business, to competitive pressures and to adverse economic and industry conditions;
- requiring the dedication of an increased portion of our expected cash flows from operations to service our indebtedness, thereby reducing the amount of expected cash flows available for other purposes, including capital expenditures, acquisitions, stock repurchases and dividends; and
- limiting our flexibility in planning for, or reacting to, changes in our business and our industry.

Our current revolving credit facility imposes restrictions on us, including restrictions on our ability to create liens on our assets and the ability of our subsidiaries to incur indebtedness, and requires us to maintain compliance with specified financial ratios. Our ability to comply with these ratios may be affected by events beyond our control. In addition, the indenture governing our senior notes contains covenants that may adversely affect our ability to incur certain liens or engage in certain types of sale and leaseback transactions. If we breach any of the covenants and do not obtain a waiver from the lenders, then, subject to applicable cure periods, our outstanding indebtedness could be declared immediately due and payable.

If we suffer a loss to our factories, facilities or distribution system due to catastrophe, our operations could be seriously harmed.

Our factories, facilities and distribution system are subject to catastrophic loss due to fire, flood, terrorism or other natural or man-made disasters. In particular, several of our facilities could be subject to a catastrophic loss caused by earthquake due to their locations. Our production facilities, headquarters, and laboratories in California, and our production facilities in Japan, are all located in areas with above-average seismic activity. If any of our facilities were to experience a catastrophic loss, it could disrupt our operations, delay production, shipments and revenue and result in large expenses to repair or replace the facility. If such a disruption were to occur, we could breach agreements, our reputation could be harmed, and our business and operating results could be adversely affected. In addition, because we have consolidated our manufacturing facilities and we may not have redundant manufacturing capability readily available, we are more likely to experience an interruption to our operations in the event of a catastrophe in any one location. Although we carry insurance for property damage and business interruption, we do not carry insurance or financial reserves for interruptions or potential losses arising from earthquakes or terrorism. Also, our third-party insurance coverage will vary from time to time in both type and amount depending on availability, cost and our decisions with respect to risk retention. Economic conditions and uncertainties in global markets may adversely affect the cost and other terms upon which we are able to obtain third-party insurance. If our third-party insurance coverage is adversely affected, or to the extent we have elected to self-insure, we may be at a greater risk that our operations will be harmed by a catastrophic loss.

If we experience a significant disruption in, or breach in security of, our information technology systems, or if we fail to implement new systems and software successfully, our business could be adversely affected.

We rely on several centralized information technology systems throughout our company to provide products and services, keep financial records, process orders, manage inventory, process shipments to customers and operate other critical functions. Our information technology systems may be susceptible to damage, disruptions or shutdowns due to power outages, hardware failures, computer viruses, attacks by computer hackers, telecommunication failures, user errors, catastrophes or other unforeseen events. Our information technology systems also may experience interruptions, delays or cessations of service or produce errors in connection with system integration, software upgrades or system migration work that takes place from time to time. If we were to experience a prolonged system disruption in the information technology systems that involve our interactions with customers

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or suppliers, it could result in the loss of sales and customers and significant incremental costs, which could adversely affect our business. In addition, security breaches of our information technology systems could result in the misappropriation or unauthorized disclosure of confidential information belonging to us or to our employees, partners, customers or suppliers, which could result in our suffering significant financial or reputational damage.

Adverse conditions in the global banking industry and credit markets may adversely impact the value of our cash investments or impair our liquidity.

As of October 31, 2018, we had cash and cash equivalents of approximately \$2,247 million invested or held in a mix of money market funds, time deposit accounts and bank demand deposit accounts. Disruptions in the financial markets may, in some cases, result in an inability to access assets such as money market funds that traditionally have been viewed as highly liquid. Any failure of our counterparty financial institutions or funds in which we have invested may adversely impact our cash and cash equivalent positions and, in turn, our operating results and financial condition.

We could incur significant liabilities if the distribution of Keysight common stock to our shareholders is determined to be a taxable transaction.

We have received an opinion from outside tax counsel to the effect that the separation and distribution of Keysight qualifies as a transaction that is described in Sections 355(a) and 368(a)(1)(D) of the Internal Revenue Code. The opinion relies on certain facts, assumptions, representations and undertakings from Keysight and us regarding the past and future conduct of the companies' respective businesses and other matters. If any of these facts, assumptions, representations or undertakings are incorrect or not satisfied, our shareholders and we may not be able to rely on the opinion of tax counsel and could be subject to significant tax liabilities. Notwithstanding the opinion of tax counsel we have received, the IRS could determine on audit that the separation is taxable if it determines that any of these facts, assumptions, representations or undertakings are not correct or have been violated or if it disagrees with the conclusions in the opinion. If the separation is determined to be taxable for U.S. federal income tax purposes, our shareholders that are subject to U.S. federal income tax and we could incur significant U.S. federal income tax liabilities.

We cannot assure that we will continue to pay dividends on our common stock.

Since the first quarter of fiscal year 2012, we have paid a quarterly dividend on our common stock. The timing, declaration, amount and payment of any future dividends fall within the discretion of our Board of Directors and will depend on many factors, including our available cash, estimated cash needs, earnings, financial condition, operating results, capital requirements, as well as limitations in our contractual agreements, applicable law, regulatory constraints, industry practice and other business considerations that our Board of Directors considers relevant. A change in our dividend program could have an adverse effect on the market price of our common stock.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

As of October 31, 2018, we owned or leased a total of approximately 6.3 million square feet of space worldwide. Of that, we owned approximately 4.4 million square feet and leased the remaining 1.9 million square feet. Our sales and support facilities occupied a total of approximately 0.7 million square feet. Our manufacturing plants, R&D facilities and warehouse and administrative facilities occupied approximately 5.6 million square feet. All of our businesses share sales offices throughout the world.

Information about each of our businesses appears below:

Life Sciences & Applied Markets Business. Our life sciences and applied markets business has manufacturing and R&D facilities in Australia, China, Germany, Italy, Malaysia, Singapore, United Kingdom and the United States.

Diagnostics and Genomics Business. Our diagnostics and genomics business has manufacturing and R&D facilities in Belgium, Denmark, Malaysia and the United States.

Agilent CrossLab Business. Our Agilent CrossLab business has manufacturing and R&D facilities in Australia, China, Germany, Japan, Netherlands, Singapore, United Kingdom and the United States.

Item 3. Legal Proceedings

We are involved in lawsuits, claims, investigations and proceedings, including, but not limited to, intellectual property, commercial, real estate, environmental and employment matters, which arise in the ordinary course of business. There are no matters pending that we currently believe are probable and reasonably possible of having a material impact to our business, consolidated financial condition, results of operations or cash flows.

Item 4. Mine Safety Disclosures

Not applicable.

PART II

Item 5. Market for the Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

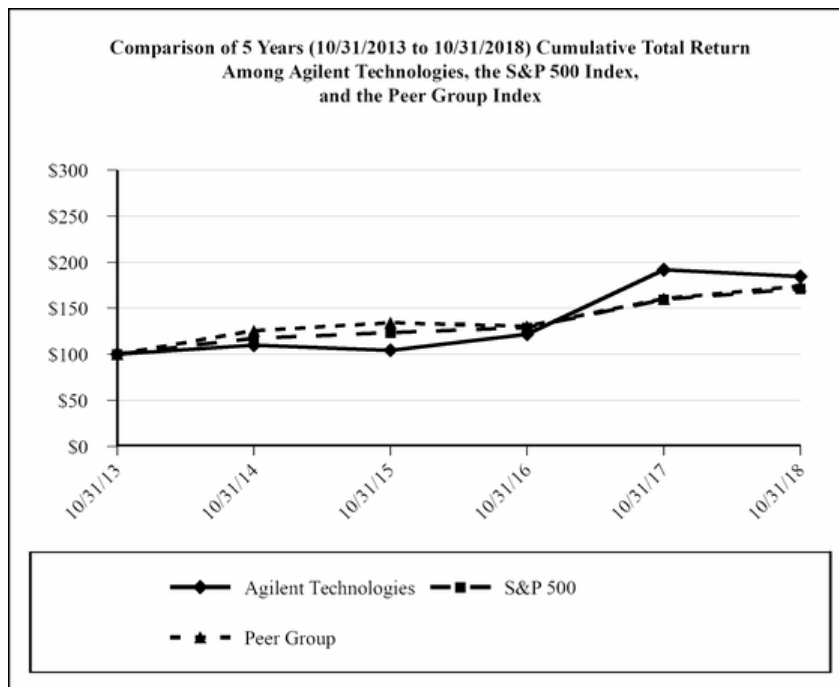
Our common stock is listed on the New York Stock Exchange with the ticker symbol "A". As of December 1, 2018, there were 22,187 common stockholders of record.

The information required by this item with respect to equity compensation plans is included under the caption "*Equity Compensation Plans*" in our Proxy Statement for the Annual Meeting of Stockholders to be held March 20, 2019, to be filed with the Securities and Exchange Commission pursuant to Regulation 14A, and is incorporated herein by reference.

STOCK PRICE PERFORMANCE GRAPH

The graph below shows the cumulative total stockholder return on our common stock with the cumulative total return of the S&P 500 Index and our peer group, consisting of all companies in the Health Care and Materials Indexes of the S&P 500, assuming an initial investment of \$100 on October 31, 2013 and the reinvestment of all dividends. The cumulative returns on our common stock have also been adjusted to reflect the spin-off of our electronic measurement business into an independent publicly traded company called Keysight Technologies, Inc. on November 1, 2014.

Agilent's stock price performance shown in the following graph is not indicative of future stock price performance. The data for this performance graph was compiled for us by Standard and Poor's.



INDEXED RETURNS
Years Ending

Company Name / Index	INDEXED RETURNS					
	Base Period	10/31/2013	10/31/2014	10/31/2015	10/31/2016	10/31/2017
Agilent Technologies	100	109.93	104.32	121.65	191.77	184.30
S&P 500	100	117.27	123.37	128.93	159.40	171.11
Peer Group	100	125.48	134.19	130.32	160.31	174.07

ISSUER PURCHASES OF EQUITY SECURITIES

The table below summarizes information about the Company's purchases, based on trade date; of its equity securities registered pursuant to Section 12 of the Exchange Act during the quarterly period ended October 31, 2018. The total number of shares of common stock purchased by the Company during the fiscal year ended October 31, 2018 is 6,435,974 shares.

Period	Total Number of Shares of Common Stock Purchased(1)	Weighted Average Price Paid per Share of Common Stock(2)	Total Number of Shares of Common Stock Purchased as Part of Publicly Announced Plans or Programs(1)	Maximum Approximate Dollar Value of Shares of Common Stock that May Yet Be Purchased Under the Plans or Programs (in millions)(1)
Aug. 1, 2018 through Aug. 31, 2018	241,748	66.07	241,748	\$ 258
Sep. 1, 2018 through Sep. 30, 2018	202,400	69.04	202,400	\$ 244
Oct. 1, 2018 through Oct. 31, 2018	881,462	\$ 63.93	881,462	\$ 188
Total	1,325,610	\$ 65.10	1,325,610	

(1) On May 28, 2015, we announced that our board of directors had approved a new share repurchase program (the "2015 repurchase program"). The 2015 repurchase program authorizes the purchase of up to \$1.14 billion of our common stock through and including November 1, 2018. The 2015 repurchase program does not require the company to acquire a specific number of shares and may be suspended or discontinued at any time. As of October 31, 2018, all repurchased shares have been retired. The remaining authorization of \$188 million expired on November 1, 2018.

(2) The weighted average price paid per share of common stock does not include the cost of commissions.

Item 6. Selected Financial Data

SELECTED FINANCIAL DATA
(Unaudited)

	Years Ended October 31,				
	2018	2017	2016	2015	2014
(in millions, except per share data)					
Consolidated Statement of Operations Data:					
Net revenue	\$ 4,914	\$ 4,472	\$ 4,202	\$ 4,038	\$ 4,048
Income from continuing operations before taxes	\$ 946	\$ 803	\$ 544	\$ 480	\$ 229
Income from continuing operations	\$ 316	\$ 684	\$ 462	\$ 438	\$ 232
Income (loss) from discontinued operations, net of taxes	\$ —	\$ —	\$ —	\$ (37)	\$ 317
Net income	\$ 316	\$ 684	\$ 462	\$ 401	\$ 549
Net income per share — basic:					
Income from continuing operations	\$ 0.98	\$ 2.12	\$ 1.42	\$ 1.32	\$ 0.70
Income (loss) from discontinued operations, net of taxes	—	—	—	(0.12)	0.95
Net income per share - basic	\$ 0.98	\$ 2.12	\$ 1.42	\$ 1.20	\$ 1.65
Net income per share — diluted:					
Income from continuing operations	\$ 0.97	\$ 2.10	\$ 1.40	\$ 1.31	\$ 0.69
Income (loss) from discontinued operations, net of taxes	—	—	—	(0.11)	0.93
Net income per share - diluted	\$ 0.97	\$ 2.10	\$ 1.40	\$ 1.20	\$ 1.62
Weighted average shares used in computing basic net income per share	321	322	326	333	333
Weighted average shares used in computing diluted net income per share	325	326	329	335	338
Cash dividends declared per common share	\$ 0.596	\$ 0.528	0.460	\$ 0.400	\$ 0.528

	October 31,				
	2018	2017	2016	2015	2014
(in millions)					
Consolidated Balance Sheet Data:					
Cash and cash equivalents	\$ 2,247	\$ 2,678	\$ 2,289	\$ 2,003	\$ 2,218
Working capital	\$ 2,677	\$ 2,906	\$ 2,690	\$ 2,710	\$ 3,817
Total assets	\$ 8,541	\$ 8,426	\$ 7,794	\$ 7,479	\$ 10,815
Long-term debt	\$ 1,799	\$ 1,801	\$ 1,904	\$ 1,655	\$ 1,663
Stockholders' equity	\$ 4,567	\$ 4,831	\$ 4,243	\$ 4,167	\$ 5,301

(1) The above consolidated balance sheet includes Keysight which is presented as a discontinued operation until October 31, 2014.

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion should be read in conjunction with the consolidated financial statements and notes thereto included elsewhere in this Annual Report on Form 10-K. This report contains forward-looking statements including, without limitation, statements regarding trends, seasonality and growth in, and drivers of, the markets we sell into, our strategic direction, new product and service introductions and future products and services, adoption of our products, the ability of our products to meet market and customer needs, improving our customers' experience, future financial results, our operating margin, mix, our investments, including in manufacturing infrastructure and research and development, our ability to identify and enable synergies across our businesses, our focus on balanced capital allocation, competition, our contributions to our pension and other defined benefit plans, impairment of goodwill and other intangible assets, the effect of the U.S. Tax Cuts and Jobs Act of 2017 and U.S. and other tariffs, the impact of foreign currency movements, our hedging programs and other actions to offset the effects of tariffs and foreign currency movements, our future effective tax rate and tax valuation allowance, earnings from our foreign subsidiaries, repatriation of our earnings from foreign jurisdictions, the impact of local government regulations on our ability to pay vendors or conduct operations, our liquidity position, our ability to generate cash from operations, the potential impact of adopting new accounting pronouncements, indemnification, the use of contract manufacturers, out sourcing and third-party package delivery services, source and supply of materials used in our products, our sales, our purchase commitments, our capital expenditures, the integration of our acquisitions and other transactions, write down of investment values or loans and convertible notes, our stock repurchase program, our declared dividends, and the existence of economic instability, that involve risks and uncertainties. Our actual results could differ materially from the results contemplated by these forward-looking statements due to various factors, including those discussed in Part I Item 1A and elsewhere in this Form 10-K.

Overview and Executive Summary

Agilent Technologies Inc. ("we", "Agilent" or the "company"), incorporated in Delaware in May 1999, is a global leader in life sciences, diagnostics and applied chemical markets, providing application focused solutions that include instruments, software, services and consumables for the entire laboratory workflow.

In 2018, we acquired seven businesses for a combined purchase price of approximately \$536 million. The largest of which was Advanced Analytical Technologies, Inc. ("AATI") for approximately \$268 million in cash. On November 14, 2018, we acquired 100 percent of the stock of ACEA Biosciences Inc. ("ACEA"), a developer of cell analysis tools, for \$250 million in cash. The financial results of ACEA will be included within our financial results from the date of the close. In 2017, we acquired two businesses for a combined purchase price of approximately \$125 million in cash.

Agilent's net revenue of \$4,914 million in 2018 increased 10 percent when compared to 2017. Foreign currency movements for 2018 had an overall favorable impact on revenue of approximately 2 percentage points compared to 2017. Acquisitions in 2018 had an overall favorable impact of 1 percentage point when compared to 2017. Revenue in the life sciences and applied markets business increased 9 percent in 2018 when compared to 2017. Foreign currency movements had an unfavorable impact on revenue of 2 percentage points in 2018 when compared to 2017. Revenue in the diagnostics and genomics business increased 10 percent in 2018 when compared to 2017. Foreign currency movements had an unfavorable impact on revenue of 3 percentage points in 2018 when compared to 2017. Revenue in the Agilent CrossLab business increased 11 percent in 2018 when compared to 2017. Foreign currency movements had an unfavorable impact on revenue of 2 percentage points in 2018 when compared to 2017.

Agilent's net revenue of \$4,472 million increased 6 percent in 2017 when compared to 2016. Foreign currency movements for 2017 had an overall unfavorable impact on revenue of approximately 1 percentage point compared to 2016. Revenue in the life sciences and applied markets business increased 4 percent in 2017 when compared to 2016. Foreign currency movements had an overall unfavorable impact on revenue of less than 1 percentage point in 2017 when compared to 2016. Revenue in the diagnostics and genomics business increased 9 percent in 2017 when compared to 2016. Foreign currency movements had no overall impact on revenue in 2017 when compared to 2016. Revenue in the Agilent CrossLab business increased 8 percent in 2017 when compared to 2016. Foreign currency movements had an overall unfavorable impact on revenue of less than 1 percentage point in 2017 when compared to 2016.

Net income was \$316 million in 2018 compared to net income of \$684 million and \$462 million in 2017 and 2016, respectively. Net income for the year ended October 31, 2018 was impacted by a discrete tax charge of \$552 million related to the enactment of the Tax Act passed on December 22, 2017. See Note 4, "Income Taxes" for more details. As of October 31, 2018 and 2017, we had cash and cash equivalents balances of \$2,247 million and \$2,678 million, respectively.

On November 22, 2013 we announced that our board of directors had authorized a share repurchase program. The program was designed to reduce or eliminate dilution resulting from issuance of stock under the company's employee equity incentive

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programs to target maintaining a weighted average share count of approximately 335 million diluted shares. For the year ended October 31, 2016 we repurchased 2 million shares for \$98 million which completed the purchases under this authorization.

On May 28, 2015 we announced that our board of directors had approved a new share repurchase program (the "2015 repurchase program"). The 2015 share repurchase program authorizes the purchase of up to \$1.14 billion of our common stock at the company's discretion through and including November 1, 2018. The 2015 repurchase program does not require the company to acquire a specific number of shares and may be suspended or discontinued at any time. During the year ended October 31, 2016, upon the completion of our previous repurchase program, we repurchased approximately 8.3 million shares for \$336 million under this authorization. During the year ended October 31, 2017, we repurchased approximately 4.1 million shares for \$194 million under this authorization. During the year ended October 31, 2018 we repurchased and retired approximately 6.4 million shares for \$422 million under this authorization. As of October 31, 2018, we had remaining authorization to repurchase up to \$188 million of our common stock under this program which expired on November 1, 2018.

On November 19, 2018 we announced that our board of directors had approved a new share repurchase program (the "2019 repurchase program") designed, among other things, to reduce or eliminate dilution resulting from issuance of stock under the company's employee equity incentive programs. The 2019 share repurchase program authorizes the purchase of up to \$1.75 billion of our common stock at the company's discretion and has no fixed termination date. The 2019 repurchase program does not require the company to acquire a specific number of shares and may be suspended, amended or discontinued at any time.

During the year ended October 31, 2018, cash dividends of \$0.596 per share, or \$191 million were declared and paid on the company's outstanding common stock. During the year ended October 31, 2017, cash dividends of \$0.528 per share, or \$170 million were declared and paid on the company's outstanding common stock. During the year ended October 31, 2016, cash dividends of \$0.460 per share, or \$150 million were declared and paid on the company's outstanding common stock.

On November 14, 2018 we declared a quarterly dividend of \$0.164 per share of common stock, or approximately \$52 million which will be paid on January 23, 2019 to shareholders of record as of the close of business on December 31, 2018. The timing and amounts of any future dividends are subject to determination and approval by our board of directors.

Looking forward, we continue to focus on differentiating product solutions, improving our customers' experience and growing our operating margin. In addition, we remain focused on a balanced capital allocation through our dividend and share repurchase programs. We expect foreign currency to negatively impact revenue in 2019 but we also anticipate the contribution from our recent acquisitions to partially offset the currency impact.

Critical Accounting Policies and Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the U.S. requires management to make estimates and assumptions that affect the amounts reported in our consolidated financial statements and accompanying notes. Management bases its estimates on historical experience and various other assumptions believed to be reasonable. Although these estimates are based on management's best knowledge of current events and actions that may impact the company in the future, actual results may be different from the estimates. An accounting policy is deemed to be critical if it requires an accounting estimate to be made based on assumptions about matters that are highly uncertain at the time the estimate is made and if different estimates that reasonably could have been used or changes in the accounting estimate that are reasonably likely to occur could materially change the financial statements. Our critical accounting policies are those that affect our financial statements materially and involve difficult, subjective or complex judgments by management. Those policies are revenue recognition, inventory valuation, share-based compensation, retirement and post-retirement plan assumptions, valuation of goodwill and purchased intangible assets and accounting for income taxes.

Revenue Recognition. We enter into agreements to sell products (hardware or software), services, and other arrangements (multiple element arrangements) that include combinations of products and services. Revenue from product sales, net of trade discounts and allowances, is recognized provided that persuasive evidence of an arrangement exists, delivery has occurred, the price is fixed or determinable, and collectability is reasonably assured. Delivery is considered to have occurred when title and risk of loss have transferred to the customer. Revenue is reduced for estimated product returns, when appropriate. For sales that include customer-specified acceptance criteria, revenue is recognized after the acceptance criteria have been met. For products that include installation, if the installation meets the criteria to be considered a separate element, product revenue is recognized upon delivery, and recognition of installation revenue occurs when the installation is complete. Otherwise, neither the product nor the installation revenue is recognized until the installation is complete. Revenue from services is deferred and recognized over the contractual period or as services are rendered and accepted by the customer. We allocate revenue to each element in our multiple-element arrangements based upon their relative selling prices. We determine the selling price for each deliverable based on a selling price hierarchy. The selling price for a deliverable is based on our vendor specific objective evidence (VSOE) if available, third-party

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evidence (TPE) if VSOE is not available, or estimated selling price (ESP) if neither VSOE nor TPE is available. Revenue from the sale of software products that are not required to deliver the tangible product's essential functionality are accounted for under software revenue recognition rules. Revenue allocated to each element is then recognized when the basic revenue recognition criteria for that element have been met. The amount of product revenue recognized is affected by our judgments as to whether an arrangement includes multiple elements.

The aforementioned factors may result in a different allocation of revenue to the deliverables in multiple element arrangements, which may change the pattern and timing of revenue recognition for these elements but will not change the total revenue recognized for the arrangement.

Inventory Valuation. We assess the valuation of our inventory on a periodic basis and make adjustments to the value for estimated excess and obsolete inventory based upon estimates about future demand and actual usage. Such estimates are difficult to make under most economic conditions. The excess balance determined by this analysis becomes the basis for our excess inventory charge. Our excess inventory review process includes analysis of sales forecasts, managing product rollovers and working with manufacturing to maximize recovery of excess inventory. If actual market conditions are less favorable than those projected by management, additional write-downs may be required. If actual market conditions are more favorable than anticipated, inventory previously written down may be sold to customers, resulting in lower cost of sales and higher income from operations than expected in that period.

Share-Based Compensation. We account for share-based awards in accordance with the authoritative guidance. Under the authoritative guidance, share-based compensation expense is primarily based on estimated grant date fair value and is recognized on a straight-line basis. The fair value of share-based awards for employee stock option awards was estimated using the Black-Scholes option pricing model. Stock options were granted in years prior to fiscal year 2016. Shares granted under the Long-Term Performance Program based on Total Shareholders Return ("LTTP-TSR") were valued using the Monte Carlo simulation model. The estimated fair value of restricted stock unit awards, LTTP based on Operating Margin ("LTTP-OM") and LTTP based on Earnings per share ("LTTP-EPS") is determined based on the market price of Agilent's common stock on the date of grant adjusted for expected dividend yield. The compensation cost for LTTP (OM) and LTTP (EPS) reflects the cost of awards that are probable to vest at the end of the performance period. In the case of LTTP-OM, the performance targets for all the three years of performance period is set at the time of grant. The performance targets for LTTP-EPS grants for year 2 and year 3 of the performance period will be set in the first quarter of year 2 and year 3, respectively. The probable shares to vest are estimated based on the forecasted OM and EPS at the time of the grant and updated every quarter with latest forecast and actual information. The Employee Stock Purchase Plan ("ESPP") allows eligible employees to purchase shares of our common stock at 85 percent of the fair market value at the purchase date. All awards granted after 2015 to our senior management employees have a one year post-vest holding restriction. The estimated discount associated with post-vest holding restrictions is calculated using the Finnerty model.

Both the Black-Scholes and Monte Carlo simulation fair value models require the use of highly subjective and complex assumptions, including the option's expected life and the price volatility of the underlying stock. For LTTP (TSR) grants in 2016, we used the 3-year average historical stock price volatility of a group of our peer companies. We believed our historical volatility prior to the separation of Keysight in 2015 was no longer relevant to use. For the 2017 and 2018 LTTP (TSR) grants and calculation of the post-vest discount using the Finnerty model, we used our own post-separation historical stock price volatility. See Note 3, "Share-based Compensation," to the consolidated financial statements for more information.

The assumptions used in calculating the fair value of share-based awards represent our best estimates, but these estimates involve inherent uncertainties and the application of management judgment. Although we believe the assumptions and estimates we have made are reasonable and appropriate, changes in assumptions could materially impact our reported financial results.

Retirement and Post-Retirement Benefit Plan Assumptions. Retirement and post-retirement benefit plan costs are a significant cost of doing business. They represent obligations that will ultimately be settled sometime in the future and therefore are subject to estimation. Pension accounting is intended to reflect the recognition of future benefit costs over the employees' average expected future service to Agilent based on the terms of the plans and investment and funding decisions. To estimate the impact of these future payments and our decisions concerning funding of these obligations, we are required to make assumptions using actuarial concepts within the framework of accounting principles generally accepted in the U.S. Two critical assumptions are the discount rate and the expected long-term return on plan assets. Other important assumptions include, expected future salary increases, expected future increases to benefit payments, expected retirement dates, employee turnover, retiree mortality rates, and portfolio composition. We evaluate these assumptions at least annually.

The discount rate is used to determine the present value of future benefit payments at the measurement date - October 31 for both U.S. and non-U.S. plans. For 2018 and 2017, the U.S. discount rates were based on the results of matching expected plan benefit payments with cash flows from a hypothetically constructed bond portfolio. In 2018, discount rates for the U.S. plans

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increased compared to the previous year. For 2018 and 2017, the discount rate for non-U.S. plans was generally based on published rates for high quality corporate bonds and in 2018, slightly increased compared to the previous year. If we changed our discount rate by 1 percent, the impact would be less than \$1 million in U.S. pension expense and \$16 million on non-U.S. pension expense. Lower discount rates increase present values of the pension benefit obligation and subsequent year pension expense; higher discount rates decrease present values of the pension benefit obligation and subsequent year pension expense.

The company uses alternate methods of amortization as allowed by the authoritative guidance which amortizes the actuarial gains and losses on a consistent basis for the years presented. For U.S. Plans, gains and losses are amortized over the average future lifetime of participants using the corridor method. For most Non-U.S. Plans and U.S. Post-Retirement Benefit Plans, gains and losses are amortized using a separate layer for each year's gains and losses. The expected long-term return on plan assets is estimated using current and expected asset allocations as well as historical and expected returns. Plan assets are valued at fair value. If we changed our estimated return on assets by 1 percent, the impact would be \$4 million on U.S. pension expense and \$9 million on non-U.S. pension expense. For 2018, actual return on assets was below expectations which, along with contributions during the year, increased next year's pension cost as well as resulting in a decrease of the funded status at year end. The net periodic pension and post-retirement benefit costs recorded were a \$3 million benefit in 2018, \$15 million benefit in 2017 and \$3 million expense in 2016. The years ended October 31, 2018, 2017 and 2016, included a gain on curtailment and settlements of \$5 million, \$32 million and \$16 million, respectively.

Goodwill and Purchased Intangible Assets. Under the authoritative guidance, we have the option to perform a qualitative assessment to determine whether further impairment testing is necessary. The accounting standard gives an entity the option to first assess qualitative factors to determine whether performing the two-step test is necessary. If an entity believes, as a result of its qualitative assessment, that it is more-likely-than-not (i.e. greater than 50% chance) that the fair value of a reporting unit is less than its carrying amount, the quantitative impairment test will be required. Otherwise, no further testing will be required.

The guidance includes examples of events and circumstances that might indicate that a reporting unit's fair value is less than its carrying amount. These include macro-economic conditions such as deterioration in the entity's operating environment or industry or market considerations; entity-specific events such as increasing costs, declining financial performance, or loss of key personnel; or other events such as an expectation that a reporting unit will be sold or a sustained decrease in the stock price on either an absolute basis or relative to peers.

If it is determined, as a result of the qualitative assessment, that it is more-likely-than-not that the fair value of a reporting unit is less than its carrying amount, the provisions of authoritative guidance require that we perform a two-step impairment test on goodwill. In the first step, we compare the fair value of each reporting unit to its carrying value. The second step (if necessary) measures the amount of impairment by applying fair-value-based tests to the individual assets and liabilities within each reporting unit. As defined in the authoritative guidance, a reporting unit is an operating segment, or one level below an operating segment. We aggregate components of an operating segment that have similar economic characteristics into our reporting units.

In fiscal year 2018, we assessed goodwill impairment for our three reporting units which consisted of three segments: life sciences and applied markets, diagnostics and genomics and Agilent CrossLab. We performed a qualitative test for goodwill impairment of the three reporting units, as of September 30, 2018. Based on the results of our qualitative testing, we believe that it is more-likely-than-not that the fair value of these reporting units are greater than their respective carrying values. Each quarter we review the events and circumstances to determine if goodwill impairment is indicated. There was no impairment of goodwill during the years ended October 31, 2018, 2017 and 2016.

Purchased intangible assets consist primarily of acquired developed technologies, proprietary know-how, trademarks, and customer relationships and are amortized using the best estimate of the asset's useful life that reflect the pattern in which the economic benefits are consumed or used up or a straight-line method ranging from 6 months to 15 years. In-process research and development ("IPR&D") is initially capitalized at fair value as an intangible asset with an indefinite life and assessed for impairment thereafter. When the IPR&D project is complete, it is reclassified as an amortizable purchased intangible asset and is amortized over its estimated useful life. If an IPR&D project is abandoned, we will record a charge for the value of the related intangible asset to our consolidated statement of operations in the period it is abandoned.

We continually monitor events and changes in circumstances that could indicate carrying amounts of finite-lived intangible assets may not be recoverable. When such events or changes in circumstances occur, we assess the recoverability of finite-lived intangible assets by determining whether the carrying value of such assets will be recovered through undiscounted expected future cash flows. If the total of the undiscounted future cash flows is less than the carrying amount of those assets, we recognize an impairment loss based on the excess of the carrying amount over the fair value of the assets. During 2018, we recorded an impairment charge of \$21 million related to purchased intangible assets within the diagnostics and genomics segment that were deemed unrecoverable.

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Our indefinite-lived intangible assets are IPR&D intangible assets. The accounting guidance allows a qualitative approach for testing indefinite-lived intangible assets for impairment, similar to the issued impairment testing guidance for goodwill and allows the option to first assess qualitative factors (events and circumstances) that could have affected the significant inputs used in determining the fair value of the indefinite-lived intangible asset to determine whether it is more-likely-than-not (i.e. greater than 50% chance) that the indefinite-lived intangible asset is impaired. An organization may choose to bypass the qualitative assessment for any indefinite-lived intangible asset in any period and proceed directly to calculating its fair value. We performed a qualitative test for impairment of indefinite-lived intangible assets as of September 30, 2018. Based on the results of our qualitative testing, we believe that it is more-likely-than-not that the fair value of these indefinite-lived intangible assets is greater than their respective carrying values. Each quarter we review the events and circumstances to determine if impairment of indefinite-lived intangible asset is indicated. During the years ended October 31, 2018 and 2017, there were no impairments of indefinite-lived intangible assets. Based on triggering events in the year ended October 31, 2016, we recorded an impairment of \$4 million due to the cancellation of certain IPR&D projects.

Accounting for Income Taxes. We must make certain estimates and judgments in determining income tax expense for financial statement purposes. These estimates and judgments occur in the calculation of tax credits, benefits and deductions, and in the calculation of certain tax assets and liabilities which arise from differences in the timing of recognition of revenue and expense for tax and financial statement purposes, as well as interest and penalties related to uncertain tax positions. Significant changes to these estimates may result in an increase or decrease to our tax provision in a subsequent period. On a quarterly basis, we provide for income taxes based upon an estimated annual effective tax rate. The effective tax rate is highly dependent upon the geographic composition of worldwide earnings, tax regulations governing each region, availability of tax credits and the effectiveness of our tax planning strategies. We monitor the changes in many factors and adjust our effective income tax rate on a timely basis. If actual results differ from these estimates, this could have a material effect on our financial condition and results of operations.

Significant management judgment is also required in determining whether deferred tax assets will be realized in full or in part. When it is more-likely-than-not that all or some portion of deferred tax assets may not be realized, a valuation allowance must be established against such deferred tax assets. We consider all available positive and negative evidence on a jurisdiction-by-jurisdiction basis when assessing whether it is more likely than not that deferred tax assets are recoverable. We consider evidence such as our past operating results, the existence of losses in recent years and our forecast of future taxable income. At October 31, 2018, we continue to recognize a valuation allowance for certain U.S. and U.S state and foreign deferred tax assets. We intend to maintain a valuation allowance in these jurisdictions until sufficient positive evidence exists to support its reversal.

The calculation of our tax liabilities involves dealing with uncertainties in the application of complex tax law and regulations in a multitude of jurisdictions. Although the guidance on the accounting for uncertainty in income taxes prescribes the use of a recognition and measurement model, the determination of whether an uncertain tax position has met those thresholds will continue to require significant judgment by management. In accordance with the guidance on the accounting for uncertainty in income taxes, for all U.S. and other tax jurisdictions, we recognize potential liabilities for anticipated tax audit issues based on our estimate of whether, and the extent to which, additional taxes and interest will be due. The ultimate resolution of tax uncertainties may differ from what is currently estimated, which could result in a material impact on income tax expense. If our estimate of income tax liabilities proves to be less than the ultimate assessment, a further charge to expense would be required. If events occur and the payment of these amounts ultimately proves to be unnecessary, the reversal of the liabilities would result in tax benefits being recognized in the period when we determine the liabilities are no longer necessary. We include interest and penalties related to unrecognized tax benefits within the provision for income taxes on the consolidated statements of operations.

On December 22, 2017, the Tax Act was enacted into law. The Tax Act significantly changes the existing U.S. tax law and includes numerous provisions that affect our business. ASC 740, Income Taxes, requires companies to recognize the effect of the tax law changes in the period of enactment. However, the SEC staff issued Staff Accounting Bulletin 118 which allowed companies to record provisional amounts during a measurement period that should not extend beyond one year from the Tax Act enactment date. We have recognized the tax charge of \$499 million due to transition tax liability and \$53 million due to the impact of reduction in U.S. tax rates in the period when the tax law was enacted as a component of provision for income taxes from continuing operations. We have completed the accounting for all the impacts of the Tax Act except for the policy election for the treatment of the tax on global intangible low-tax income ("GILTI") inclusions. See Note 4, "Income Taxes" for more details. These computations are based on the regulations and guidance already provided by federal and state tax authorities. The company will continue to assess the impact of the further guidance from federal and state tax authorities on its business and consolidated financial statements. Any future adjustments will be recognized as discrete income tax expense or benefit in the period the adjustments are determined.

Adoption of New Pronouncements

See Note 2, "New Accounting Pronouncements," to the consolidated financial statements for a description of new accounting pronouncements.

Foreign Currency

Our revenues, costs and expenses, and monetary assets and liabilities are exposed to changes in foreign currency exchange rates as a result of our global operating and financing activities. The favorable effects of changes in foreign currency exchange rates has increased revenue by approximately 2 percentage point for the year ended October 31, 2018. When movements in foreign currency exchange rates have a positive impact on revenue it will also have a negative impact on our costs and expenses. The unfavorable effects of changes in foreign currency exchange rates has decreased revenue by approximately 1 percentage point for the year ended October 31, 2017. When movements in foreign currency exchange rates have a negative impact on revenue it will also have a positive impact on our costs and expenses. We calculate the impact of foreign currency exchange rates movements by applying the actual foreign currency exchange rates in effect during the last month of each quarter of the current year to both the applicable current and prior year periods. We hedge revenues, expenses and balance sheet exposures that are not denominated in the functional currencies of our subsidiaries on a short term and anticipated basis. We do experience some fluctuations within individual lines of the consolidated statement of operations and balance sheet because our hedging program is not designed to offset the currency movements in each category of revenues, expenses, monetary assets and liabilities. Our hedging program is designed to hedge currency movements on a relatively short-term basis (up to a rolling twelve-month period). Therefore, we are exposed to currency fluctuations over the longer term. To the extent that we are required to pay for all, or portions, of an acquisition price in foreign currencies, we may enter into foreign exchange contracts to reduce the risk that currency movements will impact the U.S. dollar cost of the transaction.

Results from Operations

Net Revenue

	Years Ended October 31,			2018 over 2017 % Change	2017 over 2016 % Change
	2018	2017	2016		
(in millions)					
Net revenue:					
Products	\$ 3,746	\$ 3,397	\$ 3,213	10%	6%
Services and other	\$ 1,168	\$ 1,075	\$ 989	9%	9%
Total net revenue	\$ 4,914	\$ 4,472	\$ 4,202	10%	6%
	Years Ended October 31,			2018 over 2017 ppts Change	2017 over 2016 ppts Change
	2018	2017	2016		
% of total net revenue:					
Products	76%	76%	76%	—	—
Services and other	24%	24%	24%	—	—
Total	100%	100%	100%		

Agilent's net revenue of \$4,914 million in October 31, 2018 increased 10 percent when compared to 2017. Foreign currency movements for 2018 had an favorable impact of approximately 2 percentage points compared to 2017. Agilent's net revenue of \$4,472 million increased 6 percent in 2017 when compared to 2016. Foreign currency movements for 2017 had an unfavorable impact of approximately 1 percentage point compared to 2016.

Product revenue includes revenue generated from the sales of our analytical instrumentation, software and consumables. Services and other revenue primarily consists of revenue generated from Agilent CrossLab services and services in the diagnostics and genomics business including consulting services related to the companion diagnostics and nucleic acid businesses. Some of the prominent services include repair and maintenance on multi-vendor instruments, compliance services and installation services.

Services and other revenue increased 9 percent in 2018 as compared to 2017. Services and other revenue increased in all major service categories within our Agilent CrossLab business. Services in the diagnostics and genomics business is increasing due to growth in our genomics and pathology businesses.

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Services and other revenue increased 9 percent in 2017 as compared to 2016. The service and other revenue growth is impacted by a portion of the revenue being driven by the current and previously installed product base. Service and other revenue increased due to strong companion diagnostics revenue and increases across nearly all service types.

Net Revenue By Segment

	Years Ended October 31,			2018 over 2017 % Change	2017 over 2016 % Change
	2018	2017	2016		
(in millions)					
Net revenue by segment:					
Life sciences and applied markets	\$ 2,270	\$ 2,081	\$ 1,992	9%	4%
Diagnostics and genomics	\$ 943	\$ 860	\$ 790	10%	9%
Agilent CrossLab	\$ 1,701	\$ 1,531	\$ 1,420	11%	8%
Total net revenue	\$ 4,914	\$ 4,472	\$ 4,202	10%	6%

Revenue in the life sciences and applied markets business increased 9 percent in 2018 when compared to 2017. Foreign currency movements had an overall favorable impact on revenue of 2 percentage point in 2018 when compared to 2017. Our performance within the life science and applied markets business was led by strong growth throughout the year in the pharmaceutical market. Chemical and energy markets and the environmental and forensics markets continued to show strong growth when compared to last year. Revenue in the life sciences and applied markets business increased 4 percent in 2017 when compared to 2016. Foreign currency movements had an unfavorable impact of less than 1 percentage point in 2017 when compared to 2016. For the year ended October 31, 2017, our performance within the life sciences markets was led by solid growth in the biotechnology and pharmaceutical markets. Within the applied markets, there was strong growth in the chemical and energy, food and environmental markets.

Revenue in the diagnostics and genomics business increased 10 percent in 2018 when compared to 2017. Foreign currency movements had an overall favorable impact on revenue of 3 percentage point in 2018 when compared to 2017. Our performance within the diagnostics and genomics business was led by strong growth in our genomics, companion diagnostics and biomolecular analysis businesses. Revenue in the diagnostics and genomics business increased 9 percent in 2017 when compared to 2016. Foreign currency movements had no overall currency impact on revenue growth in 2017 when compared to 2016. For the year ended October 31, 2017, our performance within the clinical and diagnostics market continued to improve with strong revenue growth from our companion diagnostics and pathology businesses.

Revenue in the Agilent CrossLab business increased 11 percent in 2018 when compared to 2017. Foreign currency movements had an overall favorable impact on revenue of 2 percentage point in 2018 when compared to 2017. Our performance in the Agilent CrossLab business saw continued growth in all key end markets with strong growth in the pharmaceutical and food markets. Revenue generated by Agilent CrossLab increased 8 percent in 2017 when compared to 2016. Foreign currency movements had an unfavorable impact of less than 1 percentage point in 2017 when compared to 2016. Revenue grew across all key end markets led by strong growth in the biotechnology and pharmaceutical, chemical and energy and food markets.

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Costs and Expenses

	Years Ended October 31,			2018 over 2017 Change	2017 over 2016 Change
	2018	2017	2016		
Gross margin on products	57.6%	57.0%	54.7%	1 ppt	2 ppts
Gross margin on services and other	45.3%	44.1%	44.6%	1 ppt	—
Total gross margin	54.7%	53.9%	52.3%	1 ppt	2 ppts
Operating margin	18.9%	18.8%	14.6%	—	4 ppts
(in millions)					
Research and development	\$ 385	\$ 339	\$ 329	14%	3%
Selling, general and administrative	\$ 1,374	\$ 1,229	\$ 1,253	12%	(2)%

Total gross margin for the year ended October 31, 2018 increased 1 percentage point when compared to last year. Increases in total gross margins for the year ended October 31, 2018 reflects higher sales volume, favorable business mix, lower manufacturing material costs and lower amortization expense of intangible assets partially offset by increased wages and variable pay, an impairment of certain intangible assets and unfavorable currency movements. Total gross margin for the year ended October 31, 2017 increased 2 percentage points when compared to last year. Increases in total gross margins for the year ended October 31, 2017 reflects higher sales volume, results from margin improvement initiatives, lower amortization expense of intangible assets and the impact of an employee pension settlement gain partially offset by higher wages and variable pay.

Total operating margin was flat for the year ended October 31, 2018, when compared to last year. Operating margins was impacted by higher gross margins, lower acquisition and integration costs and lower amortization expense offset by increased wages and variable pay, an impairment of certain intangible assets, higher transformational initiative costs and the additional research and development and selling, general and administrative expenses related to our recent acquisitions. Total operating margin increased 4 percentage points for the year ended October 31, 2017, when compared to 2016. Operating margins increased due to improvements in gross margins, the impact of lower amortization expense of intangible assets, lower transformation initiative costs, lower acquisition and integration costs and the impact of an employee pension settlement gain when compared to 2016.

Gross inventory charges were \$26 million in 2018, \$24 million in 2017 and \$20 million in 2016. Sales of previously written down inventory were \$8 million in 2018, \$9 million in 2017 and \$9 million in 2016.

Research and development expenses increased 14 percent for the year ended October 31, 2018 when compared with last year. Research and development expenses increased due to increased program spending on new products related to all of our businesses in addition to higher wages and variable pay, unfavorable currency movements and additional expenses related to acquired businesses when compared to spending in 2017. Research and development expenses increased 3 percent for the year ended October 31, 2017 when compared with 2016. Research and development expenditures increased due to increased spending on new products related to all of our businesses, additional expenses related to increased headcount from acquisitions, and higher wages and variable pay.

Selling, general and administrative expenses increased 12 percent in 2018 compared to 2017. Selling, general and administrative expenses increase was due to higher wages and variable pay, higher commissions, increased corporate costs, higher share-based compensation expense, higher transformational initiative costs, an impairment of certain intangible assets and unfavorable currency movements. Selling, general and administrative expenses decreased 2 percent in 2017 compared to 2016. Selling, general and administrative expenses decreased due to lower amortization expense from intangible assets, lower transformational initiatives, lower acquisition and integration costs, the impact of an employee pension settlement gain and reduced costs due to business improvement initiatives partially offset by higher wages and variable pay and additional selling, general and administrative expenses associated with our acquisitions in 2017.

Interest expense for the years ended October 31, 2018, 2017 and 2016 was \$75 million, \$79 million and \$72 million, respectively, and relates to the interest charged on our senior notes and the amortization of the deferred loss recorded upon termination of the forward starting interest rate swap contracts offset by the amortization of deferred gains recorded upon termination of interest rate swap contracts.

At October 31, 2018, our headcount was approximately 14,800 compared to 13,500 in 2017.

Other income (expense), net

For the year ended October 31, 2018, other income (expense), net includes the net gain of \$20 million related to the step-up of our initial investment in Lasergen, \$15 million of income related to a special one-time settlement with a third-party and income of \$12 million related to the provision of site service costs to, and lease income from, Keysight Technologies, Inc. ("Keysight").

For the year ended October 31, 2017, other income (expense), net includes \$12 million of income related to the provision of site service costs to and lease income from Keysight.

For the year ended October 31, 2016, other income (expense), net includes \$12 million of income related to the provision of certain IT and site service costs to and lease income from Keysight and an \$18 million expense related to the impairment of an investment. The costs associated with Keysight services are reported within income from operations in 2018, 2017 and 2016.

Income Taxes

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
Provision for income taxes	\$ 630	\$ 119	\$ 82

For 2018, the company's income tax expense was \$630 million with an effective tax rate of 66.6 percent. For the year ended October 31, 2018, our effective tax rate and the resulting provision for income taxes were significantly impacted by the discrete charge of \$552 million related to the enactment of the U.S. Tax Cuts and Jobs Act (the "Tax Act") as discussed below.

For 2017, the company's income tax expense was \$119 million with an effective tax rate of 14.8 percent. Our effective tax rate is impacted by earnings realized in foreign jurisdictions with statutory tax rates lower than the federal statutory tax rate. During the year, the company determined a portion of current year foreign earnings from its low tax jurisdictions would not be considered as indefinitely reinvested. As such, a deferred tax liability for that portion of unremitted foreign earnings was accrued causing an increase in the annual tax expense. Our annual effective tax rate also included tax benefits due to the settlement of an audit in Germany for the years 2005 through 2008 and the lapse of U.S. statute of limitation for the fiscal years 2012 and 2013. This benefit was offset by a deferred tax liability required for the tax expected upon repatriation of related unremitted foreign earnings that were not asserted as indefinitely invested outside the U.S.

For 2016, the company's income tax expense was \$82 million with an effective tax rate of 15.1 percent. The income tax provision for the year ended October 31, 2016 included net discrete tax expense of \$17 million primarily due to tax expense related to the establishment of a valuation allowance on an equity method investment impairment that would generate a capital loss when realized.

The company has negotiated tax holidays in several different jurisdictions, most significantly in Singapore. The tax holidays provide lower rates of taxation on certain classes of income and require various thresholds of investments and employment or specific types of income in those jurisdictions. In December 2018, the tax holiday in Singapore was renegotiated and extended through 2027 see Note 19, "Subsequent Events" for more information. Other tax holidays are due for renewal between 2019 and 2020. As a result of the incentives, the impact of the tax holidays decreased income taxes by \$87 million, \$93 million, and \$86 million in 2018, 2017, and 2016, respectively. The benefit of the tax holidays on net income per share (diluted) was approximately \$0.27, \$0.29, and \$0.26 in 2018, 2017 and 2016, respectively.

2017 U.S. Tax Reform - Tax Cuts and Jobs Act

On December 22, 2017, the Tax Act was enacted into law. The Tax Act enacted significant changes affecting our fiscal year 2018, including, but not limited to, (1) reducing the U.S. federal corporate tax rate and (2) imposing a one-time transition tax on certain unrepatriated earnings of foreign subsidiaries that had not been previously taxed in the U.S.

The Tax Act also establishes new tax provisions affecting our fiscal year 2019, including, but not limited to, (1) creating a new provision designed to tax global intangible low-tax income ("GILTI"); (2) generally eliminating U.S. federal taxes on dividends from foreign subsidiaries; (3) eliminating the corporate alternative minimum tax ("AMT"); (4) creating the base erosion anti-abuse tax ("BEAT"); (5) establishing a deduction for foreign derived intangible income ("FDII"); (6) repealing domestic production activity deduction; and (7) establishing new limitations on deductible interest expense and certain executive compensation.

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The Tax Act reduced the U.S. federal corporate tax rate from 35 percent to 21 percent effective January 1, 2018. Due to our fiscal year end, the lower corporate tax rate will be phased in, resulting in a U.S. statutory federal rate of 23 percent for our fiscal year ending October 31, 2018 and 21 percent for subsequent fiscal years.

ASC 740, Income Taxes, requires companies to recognize the effect of the tax law changes in the period of enactment. However, the SEC staff issued Staff Accounting Bulletin 118 ("SAB 118") which allowed companies to record provisional amounts during a measurement period not extending beyond one year from the Tax Act enactment date. For the year ended October 31, 2018, the company recognized income tax expense related to the Tax Act of \$552 million which includes (1) an expense of \$499 million of U.S. transition tax and correlative items on deemed repatriated earnings of non-U.S. subsidiaries and (2) an expense of \$53 million associated with the impact on deferred taxes resulting from the decreased U.S. corporate tax rate as described below. As of October 31, 2018, the company has completed the accounting for all the impacts of the Tax Act except for the policy election for the treatment of the tax on GILTI inclusions.

Deemed Repatriation Transition Tax ("Transition Tax"): The Transition Tax is based on the company's total unrepatriated post-1986 earnings and profits ("E&P") of its foreign subsidiaries and the amount of non-U.S. taxes paid (Tax Pools) on such earnings. Historically, the company permanently reinvested a significant portion of these post-1986 E&P outside the U.S. For the remaining portion, the company previously accrued deferred taxes. Since the Tax Act required all foreign earnings to be taxed currently, the company recorded an income tax expense of \$651 million for its one-time transition U.S. federal tax and a benefit of \$152 million for the reversal of related deferred tax liabilities. The resulting \$499 million net transition tax, reduced by existing tax credits, will be paid over 8 years in accordance with the election available under the Tax Act. We have completed our accounting for charges related to the Transition Tax.

Reduction of U.S. Federal Corporate Tax Rate: The reduction of the corporate income tax rate requires companies to remeasure their deferred tax assets and liabilities as of the date of enactment. The amount recorded for the year ended October 31, 2018 for the remeasurement due to tax rate change is \$53 million. We have completed our accounting for the measurement of deferred taxes.

GILTI: The Tax Act subjects a U.S. corporation to tax on its GILTI. U.S. GAAP allows companies to make an accounting policy election to either (1) treat taxes due on future GILTI inclusions in the U.S. taxable income as a current-period expense when incurred ("period cost method") or (2) factoring such amounts into a company's measurement of its deferred taxes ("deferred method"). Our analysis of the new GILTI rules and how they may impact us is incomplete. Accordingly, we have not made a policy election regarding the treatment of GILTI tax.

Indefinite Reinvestment Assertion: Prior to the enactment of the Tax Act, the company had indefinite investment assertion on a significant portion of its undistributed earnings from foreign subsidiaries. As a result of the enactment of the Tax Act, we have reevaluated our historic assertion and no longer consider these earnings to be indefinitely reinvested in our foreign subsidiaries. The company repatriated \$1,921 million of foreign earnings in fiscal year 2018. The company has recorded a deferred tax liability of \$11 million for foreign withholding taxes on repatriation of remaining undistributed earnings.

In the U.S., tax years remain open back to the year 2015 for federal income tax purposes and the year 2000 for significant states. There were no substantial changes to the status of these open tax years during 2018. The U.S. statute of limitation for audit of tax returns for the fiscal years 2014 expired in July 2018. The statute expiration resulted in the recognition of previously unrecognized tax benefits of \$23 million.

In other major jurisdictions where the company conducts business, the tax years generally remain open back to the year 2001.

With these jurisdictions and the U.S., it is reasonably possible that there could be significant changes to our unrecognized tax benefits in the next twelve months due to either the expiration of a statute of limitation or a tax audit settlement which will be partially offset by an anticipated tax liability related to unremitted foreign earnings, where applicable. Given the number of years and numerous matters that remain subject to examination in various tax jurisdictions, management is unable to estimate the range of possible changes to the balance of our unrecognized tax benefits.

The calculation of our tax liabilities involves dealing with uncertainties in the application of complex tax law and regulations in a multitude of jurisdictions. Although the guidance on the accounting for uncertainty in income taxes prescribes the use of a recognition and measurement model, the determination of whether an uncertain tax position has met those thresholds will continue to require significant judgment by management. In accordance with the guidance on the accounting for uncertainty in income taxes, for all U.S. and other tax jurisdictions, we recognize potential liabilities for anticipated tax audit issues based on our estimate

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of whether, and the extent to which, additional taxes and interest will be due. The ultimate resolution of tax uncertainties may differ from what is currently estimated, which could result in a material impact on income tax expense. If our estimate of income tax liabilities proves to be less than the ultimate assessment, a further charge to expense would be required. If events occur and the payment of these amounts ultimately proves to be unnecessary, the reversal of the liabilities would result in tax benefits being recognized in the period when we determine the liabilities are no longer necessary.

Segment Overview

In 2018, we re-organized our operating segments and moved the microfluidics business from our life sciences and applied markets operating segment to our diagnostics and genomics operating segment. Following this re-organization, we continue to have three business segments comprised of the life sciences and applied markets business, diagnostics and genomics business and the Agilent CrossLab business. All historical financial segment information for both the life sciences and applied markets segment and the diagnostics and genomics segment has been recast to reflect this reorganization in our financial statements.

Life Sciences and Applied Markets

Our life sciences and applied markets business provides application-focused solutions that include instruments and software that enable customers to identify, quantify and analyze the physical and biological properties of substances and products, as well as enable customers in the clinical and life sciences research areas to interrogate samples at the molecular and cellular level. Key product categories include: liquid chromatography ("LC") systems and components; liquid chromatography mass spectrometry ("LCMS") systems; gas chromatography ("GC") systems and components; gas chromatography mass spectrometry ("GCMS") systems; inductively coupled plasma mass spectrometry ("ICP-MS") instruments; atomic absorption ("AA") instruments; microwave plasma-atomic emission spectrometry ("MP-AES") instruments; inductively coupled plasma optical emission spectrometry ("ICP-OES") instruments; Raman spectroscopy, cell analysis plate based assays, flow cytometer; real-time cell analyzer, laboratory software for sample tracking, information management and analytics; laboratory automation and robotic systems; dissolution testing; vacuum pumps and measurement technologies.

Net Revenue

	Years Ended October 31,			2018 over 2017 Change	2017 over 2016 Change
	2018	2017	2016		
	(in millions)				
Net revenue	\$ 2,270	\$ 2,081	\$ 1,992	9%	4%

Life science and applied markets business revenue in 2018 increased 9 percent compared to 2017. Foreign currency movements for 2018 had an overall favorable currency impact of 2 percentage points on revenue growth when compared to the same period last year. Geographically, revenue increased 8 percent in the Americas with no currency impact, increased 12 percent in Europe with a 5 percentage point favorable currency impact and increased 8 percent in Asia Pacific with a 1 percentage point favorable currency impact. From a product standpoint liquid chromatography mass spectrometry, spectroscopy and cell analysis systems led with double digit growth. Gas chromatography mass spectrometry and gas chromatography also posted strong results helped by growth in the chemical and energy markets.

End market performance in 2018 was led by pharmaceutical markets which were strong throughout the year. Chemical and energy markets kept the momentum from 2017 and delivered strong growth. Academic and government and environmental markets also delivered strong growth. Food market contracted mainly driven by consolidations of governmental agencies in China.

Life science and applied markets business revenue in 2017 increased 4 percent compared to 2016. From a product standpoint, gas chromatography mass spectrometry, software and informatics systems, and cell analysis systems led with double digit growth during the year. Gas chromatography returned to strong growth on the strength of rebounding chemical and energy markets. Liquid chromatography grew single digits compared to 2016 as the pharmaceutical markets moderated.

End market performance in 2017 showed a shift in growth trends from those of 2016. Chemical and energy markets rebounded sharply from the depressed levels of 2016 and delivered strong growth. The growth from pharmaceutical markets, which led the way in 2016, was modest reflecting difficult year on year comparisons. Food and environmental markets demonstrated continued growth during the year. Academic and government and diagnostic and clinical market sales saw improvement as the year progressed.

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Looking forward, we are optimistic about our growth opportunities in the life sciences and applied markets as our broad portfolio of products and solutions are well suited to address customer needs. We anticipate strong sales funnels given new product introductions as we continue to invest in expanding and improving our applications and solutions portfolio. While we anticipate volatility in our markets, we expect continued growth across most end markets.

Gross Margin and Operating Margin

The following table shows the life sciences and applied markets business' margins, expenses and income from operations for 2018 versus 2017, and 2017 versus 2016.

	Years Ended October 31,			2018 over 2017 Change	2017 over 2016 Change
	2018	2017	2016		
Total gross margin	61.3%	60.2%	58.8%	1 ppt	1 ppt
Operating margin	24.1%	22.5%	20.7%	2 ppts	2 ppts
(in millions)					
Research and development	\$ 219	\$ 201	\$ 191	9%	5%
Selling, general and administrative	\$ 625	\$ 585	\$ 569	7%	3%
Income from operations	\$ 547	\$ 468	\$ 412	17%	14%

Gross margin increased 1 percentage point in 2018 compared to 2017. The increase was due to increased volume and lower manufacturing material costs. Gross margin increased 1 percentage point in 2017 compared to 2016. The increase was due to a combination of moderate price increases, margin improvement initiatives, and reduced logistics costs.

Research and development expenses increased 9 percent in 2018 when compared to 2017. The increase in research and development was due to higher program funding in product development as well as wage and variable pay increases and unfavorable currency related effects. Research and development expenses increased 5 percent in 2017 when compared to 2016. Research and development expenses increased due to higher project investments across our businesses as well as higher wages and variable pay.

Selling, general and administrative expenses increased 7 percent in 2018 compared to 2017. Selling, general and administrative expenses increased due to increased marketing and sales force investments as well as wage and variable pay increases, higher share-based compensation expense and unfavorable currency related effects. Selling, general and administrative expenses increased 3 percent in 2017 compared to 2016. Selling, general and administrative expenses increased due to higher funding in marketing programs to promote newly released products as well as higher wages and variable pay.

Operating margin increased 2 percentage points in 2018 compared to 2017. The increase in operating margin was a product of revenue growth and improved gross margin offset slightly by unfavorable currency impact. Operating margin increased 2 percentage points in 2017 compared to 2016. Operating margin increased due to revenue growth paired with improvements from gross margin initiatives and moderate price increases.

Income from Operations

Income from operations in 2018 increased by \$79 million or 17 percent when compared to 2017 on a revenue increase of \$189 million. The increase was due to higher revenues and lower cost of sales on incremental revenues. Income from operations in 2017 increased by \$56 million or 14 percent when compared to 2016 on a revenue increase of \$89 million. The increase was due to higher revenues and lower cost of sales on incremental revenues.

Diagnostics and Genomics

Our diagnostics and genomics business includes the genomics, nucleic acid contract manufacturing and research and development, pathology, companion diagnostics, reagent partnership and biomolecular analysis businesses.

Our diagnostics and genomics business is comprised of six areas of activity providing active pharmaceutical ingredients ("APIs") for oligo-based therapeutics as well as solutions that include reagents, instruments, software and consumables, which enable customers in the clinical and life sciences research areas to interrogate samples at the cellular and molecular level. First,

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our genomics business includes arrays for DNA mutation detection, genotyping, gene copy number determination, identification of gene rearrangements, DNA methylation profiling, gene expression profiling, as well as next generation sequencing ("NGS") target enrichment and genetic data management and interpretation support software. This business also includes solutions that enable clinical labs to identify DNA variants associated with genetic disease and help direct cancer therapy. Second, our nucleic acid solutions business provides equipment and expertise focused on production of synthesized oligonucleotides under pharmaceutical good manufacturing practices ("GMP") conditions for use as API in an emerging class of drugs that utilize nucleic acid molecules for disease therapy. Third, our pathology solutions business is focused on product offerings for cancer diagnostics and anatomic pathology workflows. The broad portfolio of offerings includes immunohistochemistry ("IHC"), in situ hybridization ("ISH"), hematoxylin and eosin ("H&E") staining and special staining. Fourth, we also collaborate with a number of major pharmaceutical companies to develop new potential pharmacodiagnosics, also known as companion diagnostics, which may be used to identify patients most likely to benefit from a specific targeted therapy. Fifth, the reagent partnership business is a provider of reagents used for turbidimetry and flow cytometry. Finally, our biomolecular analysis business provides complete workflow solutions, including instruments, consumables and software, for quality control analysis of nucleic acid samples. Samples are analyzed using quantitative and qualitative techniques to ensure accuracy in further genomics analysis techniques utilized in clinical and life science research applications.

Net Revenue

	Years Ended October 31,			2018 over 2017 Change	2017 over 2016 Change
	2018	2017	2016		
	(in millions)				
Net revenue	\$ 943	\$ 860	\$ 790	10%	9%

Diagnostics and genomics business revenue in 2018 increased 10 percent compared to 2017. Foreign currency movements for 2018 had an overall favorable impact on revenue growth of 3 percentage points when compared to the same period last year and acquisitions had an overall favorable impact on revenue growth of 2 percentage points when compared to the same period last year. Geographically, revenue increased 11 percent in the Americas with a 1 percentage point unfavorable currency impact, increased 11 percent in Europe with a 6 percentage point favorable currency impact and increased 2 percent in Asia Pacific with a 1 percentage point favorable currency impact. The growth in the Americas was supported by continued strength in our genomics business, strong growth in the companion diagnostic business and our biomolecular analysis business. Europe results represented growth in our genomics and the biomolecular analysis business. The performance in Americas and Europe were led by growth in sales in genomics (particularly target enrichment and arrays). Asia Pacific, our relatively smaller region, increased due to higher shipment volumes in China.

The 10 percent revenue growth in 2018 was due to positive growth from all businesses and strength in Americas, Europe and China regions. This was led by revenue growth in our arrays and next generation sequencing solution portfolio offering within the genomics business mainly driven by SureSelect NGS target enrichment products, continued ramp in revenue growth in our reagent partnership business due to demand for our reagents and strength in our biomolecular analysis business consumables portfolio. The end markets in diagnostics and clinical research remain strong and growing driven by an aging population and lifestyle.

Diagnostics and genomics business revenue in 2017 increased 9 percent compared to 2016. The growth in the Americas was assisted by continued demand in our nucleic acid solutions division, growth in sales in our pathology business and continuing strong growth in the companion diagnostic business. Pathology growth was a result of strength in all regions led by our companion diagnostics ("CDx") assays and molecular pathology products. Europe results were assisted by growth in our genomics, pathology, and the companion diagnostic business. Growth in Asia Pacific reflected strength mainly in China and Japan.

Looking forward, we are optimistic about our growth opportunities in the diagnostics markets and continue to invest in expanding and improving our applications and solutions portfolio. We remain positive about our growth in these markets, as our OMNIS products, PD-L1 assays and SureFISH continue to gain strength with our customers in clinical oncology applications and our next generation sequencing target enrichment solutions continue to be adopted. Market demand in the nucleic acid solutions business related to therapeutic oligo programs continues to be strong. We are investing in building further capacity in our nucleic acid business to address the future demand for the oligos. We will continue to invest in research and development and seek to expand our position in developing countries and emerging markets. For example, we completed the acquisitions of Lasergen and Advanced Analytical Technologies, Inc. ("AATI") during 2018.

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Gross Margin and Operating Margin

The following table shows the diagnostics and genomics business's margins, expenses and income from operations for 2018 versus 2017, and 2017 versus 2016.

	Years Ended October 31,			2018 over 2017 Change	2017 over 2016 Change
	2018	2017	2016		
Total gross margin	56.5%	55.2%	54.5%	1 ppt	1 ppt
Operating margin	18.9%	19.5%	16.6%	(1) ppt	3 pts
(in millions)					
Research and development	\$ 109	\$ 89	\$ 87	22%	2%
Selling, general and administrative	\$ 246	\$ 218	\$ 212	13%	3%
Income from operations	\$ 178	\$ 168	\$ 131	6%	28%

Gross margin increased 1 percentage point in 2018 when compared to 2017 as gains from higher volumes were partially offset by increased wage and variable pay. Gross margin increased 1 percentage point in 2017 when compared to 2016, mainly driven out of higher volumes.

Research and development expenses increased 22 percent in 2018 when compared to 2017. The increase was mainly due to additional expenses related to the acquisition of Lasergen, increase in wages and variable pay and unfavorable currency movements. Research and development expenses increased 2 percent in 2017 when compared to 2016. The spending increase was related to an acquisition and higher wages and variable pay.

Selling, general and administrative expenses increased 13 percent in 2018 when compared to 2017. Selling, general and administrative expenses increase was due to the additional expenses related to the acquisitions of Lasergen and AATI, increases in wages and variable pay and unfavorable currency movements. Selling, general and administrative expenses increased 3 percent in 2017 when compared to 2016. Selling, general and administrative expenses increase was related to additional operating expenses associated with an acquisition and higher wages and variable pay partially offset by reduced expenses due to business improvement initiatives.

Operating margin decreased 1 percentage point in 2018 when compared to 2017. The decline in operating margin was due additional expenses related to the acquisitions of Lasergen and AATI. Operating margin increased 3 percentage points in 2017 when compared to 2016. The margin improvement was driven by higher revenue volumes partially offset by adding the cost structure of an acquisition and higher wages and variable pay.

Income from Operations

Income from operations in 2018 increased by \$10 million or 6 percent when compared to 2017 on a revenue increase of \$83 million. The increase was due to higher volumes partially offset by higher expenses related to the acquisitions. Income from operations in 2017 increased by \$37 million or 28 percent when compared to 2016 on a revenue increase of \$70 million. The increase was due to higher volumes and controlled expenses.

Agilent CrossLab

The Agilent CrossLab business spans the entire lab with its extensive consumables and services portfolio, which is designed to improve customer outcomes. Most of the portfolio is vendor neutral, meaning Agilent can serve and supply customers regardless of their instrument purchase choices. Solutions range from chemistries and supplies to services and software helping to connect the entire lab. Key product categories in consumables include GC and LC columns, sample preparation products, custom chemistries, and a large selection of laboratory instrument supplies. Services include startup, operational, training and compliance support, software as a service, as well as asset management and consultative services that help increase customer productivity. Custom service and consumable bundles are tailored to meet the specific application needs of various industries and to keep instruments fully operational and compliant with the respective industry requirements.

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Net Revenue

	Years Ended October 31,			2018 over 2017 Change	2017 over 2016 Change
	2018	2017	2016		
	(in millions)				
Total net revenue	\$ 1,701	\$ 1,531	\$ 1,420	11%	8%

Agilent CrossLab business revenue in 2018 increased 11 percent when compared to 2017. Foreign currency movements for 2018 had an overall favorable impact of 2 percentage points when compared to 2017. Revenue growth in 2018 was driven by the entire portfolio, including all consumables, all major service categories and remarketed instruments. Geographically, revenue increased 7 percent in the Americas with no currency impact, increased 12 percent in Europe with a 6 percentage point favorable currency impact and increased 15 percent in Asia Pacific with a 2 percentage point favorable currency impact.

Agilent CrossLab business saw a broad based and sustained revenue growth in most key end markets throughout 2018, especially from the pharmaceutical and food markets. Agilent CrossLab business revenue in 2017 increased 8 percent when compared to 2016. Revenue growth in 2017 was led by increases in most service categories and in the remarketed instruments business.

Agilent CrossLab business saw positive revenue growth in all the key end markets in 2017, except in the forensics market. In 2017, revenue growth, from a percentage perspective, was led by the food market. The pharmaceutical and biotechnology market in 2017 saw slower growth than in 2016, but was still the primary growth driver from a volume perspective. The chemical and energy market provided the same level of solid revenue growth in 2017 as it did in 2016.

Looking forward, we anticipate that the balanced strength in nearly all key end markets will continue to drive the revenue growth in the near term. The Agilent CrossLab portfolio of products and services are well positioned to succeed in both accelerating and decelerating market conditions in any of our key end markets. Geographically, we remain optimistic on the market growth and market penetration opportunities in China and emerging markets. Other factors for near term revenue growth include our recently completed acquisitions of Ultra Scientific and ProZyme, as well as investment in our laboratory enterprise offerings and in our continuing expansion of our e-commerce sales channel.

Gross Margin and Operating Margin

The following table shows the Agilent CrossLab business's margins, expenses and income from operations for 2018 versus 2017 and 2017 versus 2016.

	Years Ended October 31,			2018 over 2017 Change	2017 over 2016 Change
	2018	2017	2016		
	(in millions)				
Total gross margin	50.7%	49.5%	49.4%	1 ppt	—
Operating margin	23.3%	22.1%	22.3%	1 ppt	—
Research and development	\$ 55	\$ 49	\$ 46	12%	7%
Selling, general and administrative	\$ 410	\$ 370	\$ 339	11%	9%
Income from operations	\$ 397	\$ 338	\$ 316	17%	7%

Gross margin for products and services increased 1 percentage points in 2018 when compared to 2017. Gross margin increase came primarily from higher sales volume. Gross margin was flat in 2017 when compared to 2016, due to the higher sales volume offset by higher wages and variable pay.

Research and development expenses increased 12 percent in 2018 when compared to 2017. Research and development increase was primarily due to higher wages across the various research organizations, and due to increased headcount in the areas of software development, iLab development and customer training curriculum development. Research and development expenses increased 7 percent in 2017 when compared to 2016, due to increased investment related to an acquisition, as well as higher wages and variable pay.

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Selling, general and administrative expenses increased 11 percent in 2018 when compared to 2017. Selling, general and administrative expenses increased due to higher wages, higher variable pay, increased corporate infrastructure costs, and increased sales force investments. Selling, general and administrative expenses increased 9 percent in 2017 when compared to 2016, due to higher orders driving higher selling costs, as well as higher wages and variable pay and the additional operating expenses from an acquisition.

Operating margin increased 1 percentage point in 2018 when compared to 2017. The increase in operating margin was primarily due to higher sales volume. Operating margin was flat in 2017 when compared to 2016, due to higher sales volume helping to offset growth in the number of service workforce, higher wages and variable pay and higher field selling costs.

Income from Operations

Income from operations in 2018 increased by \$59 million or 17 percent when compared to 2017 on a revenue increase of \$170 million. Income from operations in 2017 increased by \$22 million or 7 percent when compared to 2016 on a revenue increase of \$111 million.

Financial Condition

Liquidity and Capital Resources

Our financial position as of October 31, 2018 consisted of cash and cash equivalents of \$2,247 million as compared to \$2,678 million as of October 31, 2017.

As of October 31, 2018, approximately \$1,361 million of our cash and cash equivalents is held outside of the U.S. by our foreign subsidiaries. In 2018, we repatriated \$1,921 million of the cash held outside the U.S. The cash remaining outside the U.S. can be repatriated to the U.S. as local working capital and other regulatory conditions permit. As a result of the Tax Act, our cash and cash equivalents are no longer subjected to U.S. federal tax on repatriation into the U.S. We utilize a variety of funding strategies to ensure that our worldwide cash is available in the locations in which it is needed.

As a result of the Tax Act, we are required to pay a one-time transition tax of \$426 million on deferred foreign income not previously subject to U.S. federal income tax. The transition tax is payable, beginning in fiscal year 2019 over eight years with 8 percent due in each of the first five years, 15 percent in year six, 20 percent in year seven and 25 percent in year eight.

We believe our cash and cash equivalents, cash generated from operations, and ability to access capital markets and credit lines will satisfy, for at least the next twelve months, our liquidity requirements, both globally and domestically, including the following: working capital needs, capital expenditures, business acquisitions, stock repurchases, cash dividends, contractual obligations, commitments, principal and interest payments on debt, and other liquidity requirements associated with our operations.

Net Cash Provided by Operating Activities

Net cash provided by operating activities was \$1,087 million in 2018 as compared to \$889 million provided in 2017 and \$793 million provided in 2016. We paid approximately \$103 million under our variable and incentive pay programs, as compared to a total of \$91 million paid during the same period of 2017. Net cash paid for income taxes was approximately \$102 million in 2018, as compared to \$63 million in 2017 and \$67 million in 2016. For the year ended October 31, 2018, the net change in tax-related assets and liabilities of \$552 million was due to the enactment of the U.S. Tax Act and primarily consisted of an estimated provision of \$499 million of U.S. transition tax on deemed repatriated earnings of non-U.S. subsidiaries as well as an estimated \$53 million associated with the impact on deferred taxes resulting from the decreased U.S. corporate income tax rate. For the years ended October 31, 2018, 2017 and 2016, other assets and liabilities used cash of \$4 million, used cash of \$98 million and provided cash of \$10 million, respectively. The increase in cash usage for the year ended October 31, 2017 in other assets and liabilities is primarily due to pension contributions and taxes.

In 2018, the change in accounts receivable used cash of \$65 million, \$81 million in 2017, and \$33 million in 2016. Days' sales outstanding as of October 31, were 54 days in 2018, 55 days in 2017 and 51 days in 2016. The change in accounts payable provided cash of \$40 million in 2018, provided cash of \$2 million in 2017 and used cash of \$15 million in 2016. Cash used in inventory was \$83 million in 2018, in \$61 million in 2017 and \$7 million in 2016. Inventory days on-hand increased to 98 days in 2018 compared to 95 days in 2017 and increased compared to 92 days in 2016.

We contributed zero, \$25 million and zero to our U.S. defined benefit plans in 2018, 2017 and 2016, respectively. We

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contributed \$21 million, \$21 million and \$24 million to our non-U.S. defined benefit plans in 2018, 2017 and 2016, respectively. We contributed less than \$1 million in 2018, 2017 and 2016 to our U.S. post-retirement benefit plans. Our non-U.S. defined benefit plans are generally funded ratably throughout the year. Total contributions in 2018 were \$21 million or 54 percent less than 2017. Our annual contributions are highly dependent on the relative performance of our assets versus our projected liabilities, among other factors. We do not expect to contribute to our U.S. plans and U.S. post-retirement benefit plans during 2019. We expect to contribute \$23 million to our non-U.S. defined benefit plans during 2019.

Net Cash Used in Investing Activities

Net cash used in investing activities in 2018 was \$704 million and in 2017 was \$305 million as compared to net cash used of \$238 million in 2016.

Investments in property, plant and equipment were \$177 million in 2018, \$176 million in 2017 and \$139 million in 2016. In 2018 we invested \$516 million in acquisitions of businesses and intangible assets, net of cash acquired for the acquisition of seven businesses compared to the acquisition of two businesses for \$128 million in 2017 and the acquisition of two businesses for \$261 million in 2016. In 2018 there were approximately \$11 million purchases of cost method investments compared to \$1 million outlay in 2017 and \$80 million in 2016. Change in restricted cash and cash equivalents was \$1 million inflow in 2018, \$1 million outflow in 2017 and \$245 million inflow in 2016, respectively (changes in 2016 related to our Seahorse Biosciences acquisition).

Net Cash Used in Financing Activities

Net cash used in financing activities in 2018 was \$797 million compared to \$202 million in 2017 and \$268 million in 2016, respectively.

Treasury Stock Repurchases

On November 22, 2013 we announced that our board of directors had authorized a share repurchase program. The program was designed to reduce or eliminate dilution resulting from issuance of stock under the company's employee equity incentive programs to target maintaining a weighted average share count of approximately 335 million diluted shares. For the year ended October 31, 2016 we repurchased 2 million shares for \$98 million which completed the purchases under this authorization.

On May 28, 2015 we announced that our board of directors had approved a new share repurchase program (the "2015 repurchase program"). The 2015 share repurchase program authorizes the purchase of up to \$1.14 billion of our common stock at the company's discretion through and including November 1, 2018. The 2015 repurchase program does not require the company to acquire a specific number of shares and may be suspended or discontinued at any time. During the year ended October 31, 2016, upon the completion of our previous repurchase program, we repurchased approximately 8.3 million shares for \$336 million under this authorization. During the year ended October 31, 2017, we repurchased approximately 4.1 million shares for \$194 million under this authorization. During the year ended October 31, 2018 we repurchased and retired approximately 6.4 million shares for \$422 million under this authorization. As of October 31, 2018, we had remaining authorization to repurchase up to \$188 million of our common stock under this program which expired on November 1, 2018.

On November 19, 2018 we announced that our board of directors had approved a new share repurchase program (the "2019 repurchase program") designed, among other things, to reduce or eliminate dilution resulting from issuance of stock under the company's employee equity incentive programs. The 2019 share repurchase program authorizes the purchase of up to \$1.75 billion of our common stock at the company's discretion and has no fixed termination date. The 2019 repurchase program does not require the company to acquire a specific number of shares and may be suspended, amended or discontinued at any time.

Dividends

For the years ended October 31, 2018, 2017 and 2016 cash dividends of \$191 million, \$170 million and \$150 million were paid on the company's outstanding common stock, respectively. On November 14, 2018 we declared a quarterly dividend of \$0.164 per share of common stock, or approximately \$52 million which will be paid on January 23, 2019 to shareholders of record as of the close of business on December 31, 2018. The timing and amounts of any future dividends are subject to determination and approval by our board of directors.

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Credit Facility

On September 15, 2014, Agilent entered into a credit agreement with a financial institution which provides for a \$400 million five-year unsecured credit facility that will expire on September 15, 2019. On June 9, 2015, the commitments under the existing credit facility were increased by \$300 million and on July 14, 2017, the commitments under the existing credit facility were increased by an additional \$300 million so that the aggregate commitments under the facility now total \$1 billion. As of October 31, 2018, the company had no borrowings outstanding under the facility. We were in compliance with the covenants for the credit facility during the years ended October 31, 2018 and 2017.

Short-term and Long-term Debt

In October 2007, the company issued an aggregate principal amount of \$600 million in senior notes ("2017 senior notes"). On October 20, 2014, we settled the redemption of \$500 million of the \$600 million outstanding aggregate principal amount of our 2017 senior notes. The remaining \$100 million in senior notes matured and were paid in full on November 1, 2017.

In July 2010, the company issued an aggregate principal amount of \$500 million in senior notes ("2020 senior notes"). The 2020 senior notes were issued at 99.54% of their principal amount. The notes will mature on July 15, 2020, and bear interest at a fixed rate of 5.00% per annum. The interest is payable semi-annually on January 15th and July 15th of each year, payments commenced on January 15, 2011.

On August 9, 2011, we terminated our interest rate swap contracts related to our 2020 senior notes that represented the notional amount of \$500 million. The asset value, including interest receivable, upon termination for these contracts was approximately \$34 million and the amount to be amortized at October 31, 2018 was \$7 million. The gain is being deferred and amortized to interest expense over the remaining life of the 2020 senior notes.

In September 2012, the company issued an aggregate principal amount of \$400 million in senior notes ("2022 senior notes"). The 2022 senior notes were issued at 99.80% of their principal amount. The notes will mature on October 1, 2022, and bear interest at a fixed rate of 3.20% per annum. The interest is payable semi-annually on April 1st and October 1st of each year, payments commenced on April 1, 2013.

In July 2012, Agilent executed treasury lock agreements for \$400 million in connection with future interest payments to be made on our 2022 senior notes issued on September 10, 2012. The treasury lock contracts were terminated on September 10, 2012 and we recognized a deferred gain in accumulated other comprehensive income which is being amortized to interest expense over the life of the 2022 senior notes. The remaining gain to be amortized related to the treasury lock agreements at October 31, 2018 was \$1 million.

In June 2013, the company issued aggregate principal amount of \$600 million in senior notes ("2023 senior notes"). The 2023 senior notes were issued at 99.544% of their principal amount. The notes will mature on July 15, 2023 and bear interest at a fixed rate of 3.875% per annum. The interest is payable semi-annually on January 15th and July 15th of each year and payments commenced January 15, 2014.

On September 15, 2016, the company issued aggregate principal amount of \$300 million in senior notes ("2026 senior notes"). The 2026 senior notes were issued at 99.624% of their principal amount. The notes will mature on September 22, 2026 and bear interest at a fixed rate of 3.050% per annum. The interest is payable semi-annually on March 22nd and September 22nd of each year and payments commenced March 22, 2017.

In February 2016, Agilent executed three forward-starting pay fixed/receive variable interest rate swaps for the notional amount of \$300 million in connection with future interest payments to be made on our 2026 senior notes issued on September 15, 2016. The swap arrangements were terminated on September 15, 2016 with a payment of \$10 million and we recognized this as a deferred loss in accumulated other comprehensive income which is being amortized to interest expense over the life of the 2026 senior notes. The remaining loss to be amortized related to the interest rate swap agreements at October 31, 2018 was \$7 million.

Off Balance Sheet Arrangements and Other

We have contractual commitments for non-cancelable operating leases. See Note 14, "Commitments and Contingencies", to our consolidated financial statements for further information on our non-cancelable operating leases.

Our liquidity is affected by many factors, some of which are based on normal ongoing operations of our business and some of which arise from fluctuations related to global economics and markets. Our cash balances are generated and held in many

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locations throughout the world. Local government regulations may restrict our ability to move cash balances to meet cash needs under certain circumstances. We do not currently expect such regulations and restrictions to impact our ability to pay vendors and conduct operations throughout our global organization.

Contractual Commitments

Our cash flows from operations are dependent on a number of factors, including fluctuations in our operating results, accounts receivable collections, inventory management, and the timing of tax and other payments. As a result, the impact of contractual obligations on our liquidity and capital resources in future periods should be analyzed in conjunction with such factors.

The following table summarizes our total contractual obligations at October 31, 2018 for Agilent operations and excludes amounts recorded in our consolidated balance sheet (in millions):

	Less than one year	One to three years	Three to five years	More than five years
Operating leases	\$ 42	\$ 58	\$ 23	\$ 57
Commitments to contract manufacturers and suppliers	412	2	—	—
Other purchase commitments	80	—	—	—
Retirement plans	23	—	—	—
Transitional pension contributions to our U.S. 401(k) plan	\$ 7	\$ 15	\$ 3	\$ —
Total	<u>\$ 564</u>	<u>\$ 75</u>	<u>\$ 26</u>	<u>\$ 57</u>

Operating Leases. Commitments under operating leases relate primarily to leasehold property, see Note 14, "Commitments and Contingencies".

Commitments to Contract Manufacturers and Suppliers. We purchase components from a variety of suppliers and use several contract manufacturers to provide manufacturing services for our products. During the normal course of business, we issue purchase orders with estimates of our requirements several months ahead of the delivery dates. The above amounts represent the commitments under the open purchase orders with our suppliers that have not yet been received. However, our agreements with these suppliers usually provide us the option to cancel, reschedule, and adjust our requirements based on our business needs prior to firm orders being placed. We expect to fulfill most of our purchase commitments for inventory within one year.

In addition to the above mentioned commitments to contract manufacturers and suppliers, in the past we recorded a liability for firm, non-cancelable and unconditional purchase commitments for quantities in excess of our future demand forecasts consistent with our policy relating to excess inventory. As of October 31, 2018, the liability for our firm, non-cancelable and unconditional purchase commitments was less than \$1 million, \$1 million as of October 31, 2017 and less than \$1 million as of October 31, 2016. These amounts are included in other accrued liabilities in our consolidated balance sheet.

Other Purchase Commitments. We have categorized "other purchase commitments" related to contracts with professional services suppliers. Typically, we can cancel contracts without penalties. For those contracts that are not cancelable without penalties, we are disclosing the termination fees and costs or commitments for continued spending that we are obligated to pay to a supplier under each contract's termination period before such contract can be cancelled. Our contractual obligations with these suppliers under "other purchase commitments" were approximately \$80 million within the next year. Approximately \$27 million of the new contracts relate to penalties that will reduce over the next 15 years.

Retirement Plans. Commitments under the retirement plans relate to expected contributions to be made to our U.S. and non-U.S. defined benefit plans and to our post-retirement medical plans for the next year only. Contributions after next year are impractical to estimate. Effective May 1, 2016 until April 30, 2022, we will provide an additional transitional company contribution for certain eligible employees equal to 3 percent, 4 percent or 5 percent of an employee's annual eligible compensation due to the U.S. Retirement Plan benefits being frozen.

We had no material off-balance sheet arrangements as of October 31, 2018 or October 31, 2017.

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On Balance Sheet Arrangements

The following table summarizes our total contractual obligations on our October 31, 2018 balance sheet (in millions):

	Less than one year	One to three years	Three to five years	More than five years
Senior notes	\$ —	\$ 500	\$ 1,000	\$ 300
Credit facility ⁽¹⁾	—	—	—	—
Interest expense	70	116	79	27
Transition tax ⁽²⁾	34	68	68	256
Total	\$ 104	\$ 684	\$ 1,147	\$ 583

(1) The credit facility expires on September 15, 2019.

(2) The transition tax payable may be adjusted based on our 2018 tax return filings.

Other long-term liabilities as of October 31, 2018 and October 31, 2017 include \$607 million and \$131 million, respectively, related to long-term income tax liabilities. Of these amounts, \$215 million and \$131 million related to uncertain tax positions as of October 31, 2018 and October 31, 2017, respectively. We are unable to accurately predict when these amounts will be realized or released. However, it is reasonably possible that there could be significant changes to our unrecognized tax benefits in the next twelve months due to either the expiration of a statute of limitations or a tax audit settlement. The remaining \$392 million in other long-term liabilities relates to the one-time transition tax payable after fiscal year 2019. The transition tax is payable, beginning in fiscal year 2019 over eight years with 8 percent due in each of the first five years, 15 percent in year six, 20 percent in year seven and 25 percent in year eight.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to foreign currency exchange rate risks inherent in our sales commitments, anticipated sales, and assets and liabilities denominated in currencies other than the functional currency of our subsidiaries. We hedge future cash flows denominated in currencies other than the functional currency using sales forecasts up to twelve months in advance. Our exposure to exchange rate risks is managed on an enterprise-wide basis. This strategy utilizes derivative financial instruments, including option and forward contracts, to hedge certain foreign currency exposures with the intent of offsetting gains and losses that occur on the underlying exposures with gains and losses on the derivative contracts hedging them. We do not currently and do not intend to utilize derivative financial instruments for speculative trading purposes. To the extent that we are required to pay for all, or portions, of an acquisition price in foreign currencies, we may enter into foreign exchange contracts to reduce the risk that currency movements will impact the cost of the transaction.

Our operations generate non-functional currency cash flows such as revenues, third party vendor payments and inter-company payments. In anticipation of these foreign currency cash flows and in view of volatility of the currency market, we enter into such foreign exchange contracts as are described above to manage our currency risk. Approximately 53 percent of our revenue in 2018, 51 percent of our revenue in 2017 and 54 percent of our revenues in 2016 were generated in U.S. dollars. The favorable effects of changes in foreign currency exchange rates, principally as a result of the strengthening of the U.S. dollar, has increased revenue by approximately 2 percentage points in the year ended October 31, 2018. We calculate the impact of foreign currency exchange rates movements by applying the actual foreign currency exchange rates in effect during the last month of each quarter to the current year to both the applicable current and prior year periods.

We performed a sensitivity analysis assuming a hypothetical 10 percent adverse movement in foreign exchange rates to the hedging contracts and the underlying exposures described above. As of October 31, 2018 and 2017, the analysis indicated that these hypothetical market movements would not have a material effect on our consolidated financial position, results of operations, statement of comprehensive income or cash flows.

We are also exposed to interest rate risk due to the mismatch between the interest expense we pay on our loans at fixed rates and the variable rates of interest we receive from cash, cash equivalents and other short-term investments. We have issued long-term debt in U.S. dollars or foreign currencies at fixed interest rates based on the market conditions at the time of financing. We believe that the fair value of our fixed rate debt changes when the underlying market rates of interest change, and we may use interest rate swaps to modify such market risk.

We performed a sensitivity analysis assuming a hypothetical 10 percent adverse movement in interest rates relating to the underlying fair value of our fixed rate debt. As of October 31, 2018 and 2017, the sensitivity analyses indicated that a hypothetical 10 percent adverse movement in interest rates would result in an immaterial impact to the fair value of our fixed interest rate debt.

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Item 8. Financial Statements and Supplementary Data

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of Agilent Technologies, Inc.

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Agilent Technologies, Inc. and its subsidiaries (the "Company") as of October 31, 2018 and October 31, 2017, and the related consolidated statements of operations, comprehensive income, cash flows and equity for each of the three years in the period ended October 31, 2018, including the related notes and financial statement schedule appearing under Item 15(a)(2). (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of October 31, 2018, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of October 31, 2018 and October 31, 2017, and the results of its operations and its cash flows for each of the three years in the period ended October 31, 2018 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of October 31, 2018, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Report on Internal Control Over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

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Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ PRICEWATERHOUSECOOPERS LLP

San Jose, California
December 20, 2018

We have served as the Company's auditor since 1999.

AGILENT TECHNOLOGIES, INC.
CONSOLIDATED STATEMENT OF OPERATIONS

	Years Ended October 31,		
	2018	2017	2016
	(in millions, except per share data)		
Net revenue:			
Products	\$ 3,746	\$ 3,397	\$ 3,213
Services and other	1,168	1,075	989
Total net revenue	4,914	4,472	4,202
Costs and expenses:			
Cost of products	1,588	1,462	1,457
Cost of services and other	639	601	548
Total costs	2,227	2,063	2,005
Research and development	385	339	329
Selling, general and administrative	1,374	1,229	1,253
Total costs and expenses	3,986	3,631	3,587
Income from operations	928	841	615
Interest income	38	22	11
Interest expense	(75)	(79)	(72)
Other income (expense), net	55	19	(10)
Income before taxes	946	803	544
Provision for income taxes	630	119	82
Net income	\$ 316	\$ 684	\$ 462
Net income per share:			
Basic	\$ 0.98	\$ 2.12	\$ 1.42
Diluted	\$ 0.97	\$ 2.10	\$ 1.40
Weighted average shares used in computing net income per share:			
Basic	321	322	326
Diluted	325	326	329
Cash dividends declared per common share	\$ 0.596	\$ 0.528	\$ 0.460

The accompanying notes are an integral part of these consolidated financial statements.

AGILENT TECHNOLOGIES, INC.
CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME
(in millions)

	Years Ended October 31,		
	2018	2017	2016
Net income	\$ 316	\$ 684	\$ 462
Other comprehensive income (loss):			
Gain (loss) on derivative instruments, net of tax expense (benefit) of \$1, \$0 and \$(4)	6	—	(6)
Amounts reclassified into earnings related to derivative instruments, net of tax expense of \$1, \$0 and \$0	3	(1)	3
Foreign currency translation, net of tax expense of \$7, \$3 and \$3	(58)	41	(8)
Net defined benefit pension cost and post retirement plan costs:			
Change in actuarial net loss, net of tax expense (benefit) of \$(3), \$52, and \$(42)	(7)	123	(86)
Change in net prior service benefit, net of tax benefit of \$(2), \$(3), and \$(8)	(6)	(6)	(15)
Other comprehensive income (loss)	(62)	157	(112)
Total comprehensive income	<u>\$ 254</u>	<u>\$ 841</u>	<u>\$ 350</u>

The accompanying notes are an integral part of these condensed consolidated financial statements.

AGILENT TECHNOLOGIES, INC.
CONSOLIDATED BALANCE SHEET

	October 31,	
	2018	2017
	(in millions, except par value and share data)	
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 2,247	\$ 2,678
Accounts receivable, net	776	724
Inventory	638	575
Other current assets	187	192
Total current assets	3,848	4,169
Property, plant and equipment, net	822	757
Goodwill	2,973	2,607
Other intangible assets, net	491	361
Long-term investments	68	138
Other assets	339	394
Total assets	\$ 8,541	\$ 8,426
LIABILITIES AND EQUITY		
Current liabilities:		
Accounts payable	\$ 340	\$ 305
Employee compensation and benefits	304	276
Deferred revenue	324	291
Short-term debt	—	210
Other accrued liabilities	203	181
Total current liabilities	1,171	1,263
Long-term debt	1,799	1,801
Retirement and post-retirement benefits	239	234
Other long-term liabilities	761	293
Total liabilities	3,970	3,591
Commitments and contingencies (Note 14)		
Total equity:		
Stockholders' equity:		
Preferred stock; \$0.01 par value; 125 million shares authorized; none issued and outstanding	—	—
Common stock; \$0.01 par value; 2 billion shares authorized; 318 million shares at October 31, 2018 and 322 million shares at October 31, 2017 issued	3	3
Additional paid-in-capital	5,308	5,300
Accumulated deficit	(336)	(126)
Accumulated other comprehensive loss	(408)	(346)
Total stockholders' equity	4,567	4,831
Non-controlling interest	4	4
Total equity	4,571	4,835
Total liabilities and equity	\$ 8,541	\$ 8,426

The accompanying notes are an integral part of these consolidated financial statements.

AGILENT TECHNOLOGIES, INC.
CONSOLIDATED STATEMENT OF CASH FLOWS

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
Cash flows from operating activities:			
Net income	\$ 316	\$ 684	\$ 462
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	210	212	246
Share-based compensation	70	60	58
Deferred taxes	(16)	102	3
Excess and obsolete inventory related charges	26	24	20
Gain on step acquisition	(20)	—	—
Asset impairment charges	21	—	4
Impairment of equity method investment and loans	—	—	25
Other	9	7	15
Changes in assets and liabilities:			
Accounts receivable, net	(65)	(81)	(33)
Inventory	(83)	(61)	(7)
Accounts payable	40	2	(15)
Employee compensation and benefits	31	38	15
Changes in assets and liabilities due to Tax Act	552	—	—
Interest rate swap payments	—	—	(10)
Other assets and liabilities	(4)	(98)	10
Net cash provided by operating activities	1,087	889	793
Cash flows from investing activities:			
Investments in property, plant and equipment	(177)	(176)	(139)
Proceeds from the sale of property, plant and equipment	1	—	—
Proceeds from the sale of investment securities	—	—	1
Proceeds from divestitures	—	2	—
Payment to acquire cost method investment	(11)	(1)	(80)
Payment in exchange for convertible note	(2)	(1)	(1)
Loan to equity method investment	—	—	(3)
Change in restricted cash, cash equivalents and investments, net	1	(1)	245
Acquisitions of businesses and intangible assets, net of cash acquired	(516)	(128)	(261)
Net cash used in investing activities	(704)	(305)	(238)
Cash flows from financing activities:			
Issuance of common stock under employee stock plans	56	66	62
Payment of taxes related to net share settlement of equity awards	(30)	(14)	(6)
Treasury stock repurchases	(422)	(194)	(434)
Payment of dividends	(191)	(170)	(150)
Issuance of senior notes	—	—	299
Debt issuance costs	—	—	(2)
Proceeds from debts and credit facility	483	400	255
Repayment of debts and credit facility	(693)	(290)	(292)
Net cash used in financing activities	(797)	(202)	(268)
Effect of exchange rate movements	(17)	7	(1)
Net increase (decrease) in cash and cash equivalents	(431)	389	286
Cash and cash equivalents at beginning of year	2,678	2,289	2,003
Cash and cash equivalents at end of year	<u>\$ 2,247</u>	<u>\$ 2,678</u>	<u>\$ 2,289</u>
Supplemental cash flow information:			
Income tax payments, net	\$ 102	\$ 63	\$ 67
Interest payments	\$ 80	\$ 82	\$ 73
Non-cash change in investments in property, plant and equipment -increase (decrease)	\$ (5)	\$ 29	\$ (12)

The accompanying notes are an integral part of these consolidated financial statements.

AGILENT TECHNOLOGIES, INC.
CONSOLIDATED STATEMENT OF EQUITY

	Common Stock			Treasury Stock		Retained Earnings (Accumulated Deficit)	Accumulated Other Comprehensive Income/(Loss)	Total Stockholders' Equity	Non-Controlling Interest	Total Equity
	Number of Shares	Par Value	Additional Paid-in Capital	Number of Shares	Treasury Stock at Cost					
(in millions, except number of shares in thousands)										
Balance as of October 31, 2015	610,854	\$ 6	\$ 9,045	(279,395)	\$(10,074)	\$ 5,581	\$ (391)	\$ 4,167	\$ 3	\$ 4,170
Adjustment due to adoption of ASU 2016-09	—	—	—	—	—	196	—	196	—	196
Components of comprehensive income, net of tax:										
Net income	—	—	—	—	—	462	—	462	—	462
Other comprehensive loss	—	—	—	—	—	—	(112)	(112)	—	(112)
Total comprehensive income								350		350
Cash dividends declared (\$0.46 per common share)	—	—	—	—	—	(150)	—	(150)	—	(150)
Share-based awards issued	2,682	—	56	—	—	—	—	56	—	56
Repurchase of common stock	—	—	—	(10,680)	(434)	—	—	(434)	—	(434)
Share-based compensation	—	—	58	—	—	—	—	58	—	58
Balance as of October 31, 2016	613,536	\$ 6	\$ 9,159	(290,075)	\$(10,508)	\$ 6,089	\$ (503)	\$ 4,243	\$ 3	\$ 4,246
Components of comprehensive income, net of tax:										
Net income	—	—	—	—	—	684	—	684	—	684
Other comprehensive income	—	—	—	—	—	—	157	157	—	157
Total comprehensive income								841		841
Cash dividends declared (\$0.528 per common share)	—	—	—	—	—	(170)	—	(170)	—	(170)
Change in non-controlling interest	—	—	—	—	—	—	—	—	1	1
Share-based awards issued	2,621	—	51	—	—	—	—	51	—	51
Repurchase of common stock	—	—	—	(4,107)	(194)	—	—	(194)	—	(194)
Retirement of treasury stock	(294,182)	(3)	(3,970)	294,182	10,702	(6,729)	—	—	—	—
Share-based compensation	—	—	60	—	—	—	—	60	—	60
Balance as of October 31, 2017	321,975	\$ 3	\$ 5,300	—	\$ —	\$ (126)	\$ (346)	\$ 4,831	\$ 4	\$ 4,835
Components of comprehensive income, net of tax:										
Net income	—	—	—	—	—	316	—	316	—	316
Other comprehensive income	—	—	—	—	—	—	(62)	(62)	—	(62)
Total comprehensive income								254		254
Cash dividends declared (\$0.596 per common share)	—	—	—	—	—	(191)	—	(191)	—	(191)
Share-based awards issued	2,176	—	25	—	—	—	—	25	—	25
Repurchase of common stock	—	—	—	(6,436)	(422)	—	—	(422)	—	(422)
Retirement of treasury stock	(6,436)	—	(87)	6,436	422	(335)	—	—	—	—
Share-based compensation	—	—	70	—	—	—	—	70	—	70
Balance as of October 31, 2018	317,715	\$ 3	\$ 5,308	—	\$ —	\$ (336)	\$ (408)	\$ 4,567	\$ 4	\$ 4,571

The accompanying notes are an integral part of these consolidated financial statements.

AGILENT TECHNOLOGIES, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. OVERVIEW AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Overview. Agilent Technologies, Inc. ("we", "Agilent" or the "company"), incorporated in Delaware in May 1999, is a global leader in life sciences, diagnostics and applied chemical markets, providing application focused solutions that include instruments, software, services and consumables for the entire laboratory workflow.

Basis of Presentation. The accompanying financial data has been prepared by us pursuant to the rules and regulations of the U.S. Securities and Exchange Commission ("SEC") and is in conformity with U.S. generally accepted accounting principles ("GAAP"). Our fiscal year end is October 31. Unless otherwise stated, all years and dates refer to our fiscal year.

Principles of Consolidation. The consolidated financial statements include the accounts of the company and our wholly- and majority-owned subsidiaries. All significant intercompany accounts and transactions have been eliminated.

Revision of Services and Other, Product Net Revenue and related Cost of Sales. In 2018, we identified a stream of service revenue that had been presented as product revenue in the prior years. We have revised prior year's presentation to show the revenue within services and other to conform with the current presentation in fiscal 2018. The cost of sales associated with these newly identified service revenue has also been revised to align with the new presentation. For the years ended October 31, 2017 and 2016 service and other revenue increased \$13 million and \$14 million, respectively, and service and other cost of sales increased \$7 million in both periods, with corresponding reductions in product revenue and cost of sales. These corrections to the classifications are not considered to be material to current or prior periods and had no impact to our results of operations previously reported in our consolidated statement of operations.

Use of Estimates. The preparation of financial statements in accordance with U.S. GAAP requires management to make estimates and assumptions that affect the amounts reported in our consolidated financial statements and accompanying notes. Management bases its estimates on historical experience and various other assumptions believed to be reasonable. Although these estimates are based on management's best knowledge of current events and actions that may impact the company in the future, actual results may be different from the estimates. Our critical accounting policies are those that affect our financial statements materially and involve difficult, subjective or complex judgments by management. Those policies are revenue recognition, valuation of goodwill and purchased intangible assets, inventory valuation, share-based compensation, retirement and post-retirement plan assumptions and accounting for income taxes.

Retirement of Treasury Shares. Upon the formal retirement of treasury shares, we deduct the par value of the retired treasury shares from common stock and allocate the excess of cost over par as a deduction to additional paid-in capital, based on the pro-rata portion of additional paid-in-capital, and the remaining excess as a deduction to retained earnings. All retired treasury shares revert to the status of authorized but unissued shares.

Revenue Recognition. We enter into agreements to sell products (hardware and/or software), services and other arrangements (multiple element arrangements) that include combinations of products and services.

We recognize revenue, net of trade discounts and allowances, provided that (1) persuasive evidence of an arrangement exists, (2) delivery has occurred, (3) the price is fixed or determinable and (4) collectability is reasonably assured. Delivery is considered to have occurred when title and risk of loss have transferred to the customer for products, or when the service has been provided. We consider the price to be fixed or determinable when the price is not subject to refund or adjustments. At the time of the transaction, we evaluate the creditworthiness of our customers to determine the appropriate timing of revenue recognition. Provisions for discounts, warranties, returns, extended payment terms, and other adjustments are provided for in the period the related sales are recorded.

Product Revenue. Product revenue includes revenue generated from the sales of our analytical instrumentation, software and consumables. Our product revenue is generated predominantly from the sales of various types of analytical instrumentation. Product revenue, including sales to resellers and distributors, is reduced for estimated returns when appropriate. For sales or arrangements that include customer-specified acceptance criteria, including those where acceptance is required upon achievement of performance milestones, revenue is recognized after the acceptance criteria have been met. For products that include installation, if the installation meets the criteria to be considered a separate element, product revenue is recognized upon delivery, and recognition of installation revenue is delayed until the installation is complete. Otherwise, neither the product nor the installation revenue is recognized until the installation is complete.

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Where software is licensed separately, revenue is recognized when the software is delivered and has been transferred to the customer or, in the case of electronic delivery of software, when the customer is given access to the licensed software programs.

We also evaluate whether collection of the receivable is probable, the fee is fixed or determinable and whether any other undelivered elements of the arrangement exist on which a portion of the total fee would be allocated based on vendor-specific objective evidence.

Service Revenue. Revenue from services includes extended warranty, customer and software support including, Software as a Service (SaaS), consulting including companion diagnostics and training and education. Service revenue is deferred and recognized over the contractual period or as services are rendered and accepted by the customer. For example, customer support contracts are recognized ratably over the contractual period, while training revenue is recognized as the training is provided to the customer. In addition, the four revenue recognition criteria described above must be met before service revenue is recognized.

Revenue Recognition for Arrangements with Multiple Deliverables. Our multiple-element arrangements are generally comprised of a combination of measurement instruments, installation or other start-up services, and/or software and/or support or services. Hardware and software elements are typically delivered at the same time and revenue is recognized upon delivery once title and risk of loss pass to the customer. Delivery of installation, start-up services and other services varies based on the complexity of the equipment, staffing levels in a geographic location and customer preferences, and can range from a few days to a few months. Service revenue is deferred and recognized over the contractual period or as services are rendered and accepted by the customer. Revenue from the sale of software products that are not required to deliver the tangible product's essential functionality are accounted for under software revenue recognition rules which require vendor specific objective evidence (VSOE) of fair value to allocate revenue in a multiple element arrangement. Our arrangements generally do not include any provisions for cancellation, termination, or refunds that would significantly impact recognized revenue.

We have evaluated the deliverables in our multiple-element arrangements and concluded that they are separate units of accounting if the delivered item or items have value to the customer on a standalone basis and for an arrangement that includes a general right of return relative to the delivered item(s), delivery or performance of the undelivered item(s) is considered probable and substantially in our control. We allocate revenue to each element in our multiple-element arrangements based upon their relative selling prices. We determine the selling price for each deliverable based on a selling price hierarchy. The selling price for a deliverable is based on VSOE if available, third-party evidence (TPE) if VSOE is not available, or estimated selling price (ESP) if neither VSOE nor TPE is available. Revenue allocated to each element is then recognized when the basic revenue recognition criteria for that element have been met.

We use VSOE of selling price in the selling price allocation in all instances where it exists. VSOE of selling price for products and services is determined when a substantial majority of the selling prices fall within a reasonable range when sold separately. TPE of selling price can be established by evaluating largely interchangeable competitor products or services in standalone sales to similarly situated customers. As our products contain a significant element of proprietary technology and the solution offered differs substantially from that of competitors, it is difficult to obtain the reliable standalone competitive pricing necessary to establish TPE. ESP represents the best estimate of the price at which we would transact a sale if the product or service were sold on a standalone basis. We determine ESP for a product or service by using historical selling prices which reflect multiple factors including, but not limited to customer type, geography, market conditions, competitive landscape, gross margin objectives and pricing practices. The determination of ESP is made through consultation with and approval by management. We may modify or develop new pricing practices and strategies in the future. As these pricing strategies evolve changes may occur in ESP. The aforementioned factors may result in a different allocation of revenue to the deliverables in multiple element arrangements, which may change the pattern and timing of revenue recognition for these elements but will not change the total revenue recognized for the arrangement.

For sales arrangements that include equipment lease along with other products or services, revenue is allocated to the different elements based on the Revenue Recognition for Multiple Element Arrangements. Each of these contracts is evaluated as a lease arrangement, either as an operating lease or a capital (sales-type) lease using lease classification guidance.

Deferred Revenue. Deferred revenue represents the amount that is allocated to undelivered elements in multiple element arrangements. We limit the revenue recognized to the amount that is not contingent on the future delivery of products or services or meeting other specified performance conditions.

Accounts Receivable, net. Trade accounts receivable are recorded at the invoiced amount and do not bear interest. Such accounts receivable have been reduced by an allowance for doubtful accounts, which is our best estimate of the amount of probable

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credit losses in our existing accounts receivable. We determine the allowance based on customer specific experience and the aging of such receivables, among other factors. The allowance for doubtful accounts as of October 31, 2018 and 2017 was not material. We do not have any off-balance-sheet credit exposure related to our customers. Accounts receivable are also recorded net of product returns.

Shipping and Handling Costs. Our shipping and handling costs charged to customers are included in net revenue, and the associated expense is recorded in cost of products for all periods presented.

Inventory. Inventory is valued at standard cost, which approximates actual cost computed on a first-in, first-out basis, not in excess of market value. We assess the valuation of our inventory on a periodic basis and make adjustments to the value for estimated excess and obsolete inventory based on estimates about future demand. The excess balance determined by this analysis becomes the basis for our excess inventory charge. Our excess inventory review process includes analysis of sales forecasts, managing product rollovers and working with manufacturing to maximize recovery of excess inventory.

Goodwill and Purchased Intangible Assets. Under the authoritative guidance we have the option to perform a qualitative assessment to determine whether further impairment testing is necessary. The accounting standard gives an entity the option to first assess qualitative factors to determine whether performing the two-step test is necessary. If an entity believes, as a result of its qualitative assessment, that it is more-likely-than-not (i.e. greater than 50% chance) that the fair value of a reporting unit is less than its carrying amount, the quantitative impairment test will be required. Otherwise, no further testing will be required.

The guidance includes examples of events and circumstances that might indicate that a reporting unit's fair value is less than its carrying amount. These include macro-economic conditions such as deterioration in the entity's operating environment or industry or market considerations; entity-specific events such as increasing costs, declining financial performance, or loss of key personnel; or other events such as an expectation that a reporting unit will be sold or a sustained decrease in the stock price on either an absolute basis or relative to peers.

If it is determined, as a result of the qualitative assessment, that it is more-likely-than-not that the fair value of a reporting unit is less than its carrying amount, the provisions of authoritative guidance require that we perform a two-step impairment test on goodwill. In the first step, we compare the fair value of each reporting unit to its carrying value. The second step (if necessary) measures the amount of impairment by applying fair-value-based tests to the individual assets and liabilities within each reporting unit. As defined in the authoritative guidance, a reporting unit is an operating segment, or one level below an operating segment. We aggregate components of an operating segment that have similar economic characteristics into our reporting units.

In May 2018, we re-organized our operating segments and moved our microfluidics business from our life sciences and applied markets operating segment to our diagnostics and genomics operating segment. As a result, we reassigned approximately \$45 million of goodwill from our life sciences and applied markets segment to our diagnostics and genomics segment using the relative fair value allocation approach. Goodwill balances as of October 31, 2017 and 2016, have been recast to conform to this new presentation.

In fiscal year 2018, we assessed goodwill impairment for our three reporting units which consisted of three segments: life sciences and applied markets, diagnostics and genomics and Agilent CrossLab. We performed a qualitative test for goodwill impairment of the three reporting units, as of September 30, 2018. Based on the results of our qualitative testing, we believe that it is more-likely-than-not that the fair value of these reporting units are greater than their respective carrying values. Each quarter we review the events and circumstances to determine if goodwill impairment is indicated. There was no impairment of goodwill during the years ended October 31, 2018, 2017 and 2016.

Purchased intangible assets consist primarily of acquired developed technologies, proprietary know-how, trademarks, and customer relationships and are amortized using the best estimate of the asset's useful life that reflect the pattern in which the economic benefits are consumed or used up or a straight-line method ranging from 6 months to 15 years. In-process research and development ("IPR&D") is initially capitalized at fair value as an intangible asset with an indefinite life and assessed for impairment thereafter. When the IPR&D project is complete, it is reclassified as an amortizable purchased intangible asset and is amortized over its estimated useful life. If an IPR&D project is abandoned, Agilent will record a charge for the value of the related intangible asset to Agilent's consolidated statement of operations in the period it is abandoned.

Agilent's indefinite-lived intangible assets are IPR&D intangible assets. The accounting guidance allows a qualitative approach for testing indefinite-lived intangible assets for impairment, similar to the issued impairment testing guidance for goodwill and allows the option to first assess qualitative factors (events and circumstances) that could have affected the significant inputs used in determining the fair value of the indefinite-lived intangible asset to determine whether it is more-likely-than-not (i.e. greater

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than 50% chance) that the indefinite-lived intangible asset is impaired. An organization may choose to bypass the qualitative assessment for any indefinite-lived intangible asset in any period and proceed directly to calculating its fair value. We performed a qualitative test for impairment of indefinite-lived intangible assets as of September 30, 2018. Based on the results of our qualitative testing, we believe that it is more-likely-than-not that the fair value of these indefinite-lived intangible assets is greater than their respective carrying values. Each quarter we review the events and circumstances to determine if impairment of indefinite-lived intangible asset is indicated. During the year ended October 31, 2018 and 2017, there were no impairments of indefinite-lived intangible assets. Based on triggering events in the year ended October 31, 2016, we recorded an impairment of \$4 million due to the cancellation of certain IPR&D projects.

Share-Based Compensation. For the years ended 2018, 2017 and 2016, we accounted for share-based awards made to our employees and directors including employee stock option awards, restricted stock units, employee stock purchases made under our Employee Stock Purchase Plan ("ESPP") and performance share awards under Agilent Technologies, Inc. Long-Term Performance Program ("LTTP") using the estimated grant date fair value method of accounting. Under the fair value method, we recorded compensation expense for all share-based awards of \$71 million in 2018, \$61 million in 2017 and \$60 million in 2016. See Note 3, "Share-based Compensation" for additional information.

Retirement and Post-Retirement Plans. Substantially all of our employees are covered under various defined benefit and/or defined contribution retirement plans. Additionally, we sponsor post-retirement health care benefits for our eligible U.S. employees. Assumptions used to determine the benefit obligations and the expense for these plans are derived annually. See Note 12, "Retirement plans and post-retirement pension plans" for additional information.

Taxes on Income. Income tax expense or benefit is based on income or loss before taxes. Deferred tax assets and liabilities are recognized principally for the expected tax consequences of temporary differences between the tax bases of assets and liabilities and their reported amounts. See Note 4, "Income Taxes" for more information.

Warranty. Our standard warranty terms typically extend for one year from the date of delivery. We accrue for standard warranty costs based on historical trends in warranty charges as a percentage of net product revenue. The accrual is reviewed regularly and periodically adjusted to reflect changes in warranty cost estimates. Estimated warranty charges are recorded within cost of products at the time products are sold. See Note 13, "Guarantees".

Advertising. Advertising costs are generally expensed as incurred and amounted to \$41 million in 2018, \$38 million in 2017 and \$30 million in 2016.

Research and Development. Costs related to research, design and development of our products are charged to research and development expense as they are incurred.

Sales Taxes. Sales taxes collected from customers and remitted to governmental authorities are not included in our revenue.

Net Income Per Share. Basic net income per share is computed by dividing net income - the numerator - by the weighted average number of common shares outstanding - the denominator - during the period excluding the dilutive effect of stock options and other employee stock plans. Diluted net income per share gives effect to all potential common shares outstanding during the period unless the effect is anti-dilutive. The dilutive effect of share-based awards is reflected in diluted net income per share by application of the treasury stock method, which includes consideration of unamortized share-based compensation expense and the dilutive effect of in-the-money options and non-vested restricted stock units. Under the treasury stock method, the amount the employee must pay for exercising stock options and unamortized share-based compensation expense are assumed proceeds to be used to repurchase hypothetical shares. See Note 5, "Net Income Per Share".

Cash, Cash Equivalents and Short Term Investments. We classify investments as cash equivalents if their original or remaining maturity is three months or less at the date of purchase. Cash equivalents are stated at cost, which approximates fair value.

As of October 31, 2018, approximately \$1,361 million of our cash and cash equivalents is held outside of the U.S. by our foreign subsidiaries. In 2018, we repatriated \$1,921 million of the cash held outside the U.S. The cash remaining outside the U.S. can be repatriated to the U.S. as local working capital and other regulatory conditions permit. As a result of the U.S. Tax Cuts and Jobs Act (the "Tax Act"), our cash and cash equivalents are no longer subjected to U.S. federal tax on repatriation into the U.S. Our cash and cash equivalents mainly consist of short term deposits held at major global financial institutions, institutional money market funds, and similar short duration instruments with original maturities of 90 days or less. We continuously monitor the creditworthiness of the financial institutions and institutional money market funds in which we invest our funds.

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We classify investments as short-term investments if their original maturities are greater than three months and their remaining maturities are one year or less. Currently, we have no short-term investments.

Variable Interest Entities. We make a determination upon entering into an arrangement whether an entity in which we have made an investment is considered a Variable Interest Entity ("VIE"). The company evaluates its investments in privately held companies on an ongoing basis. We account for these investments under either the equity or cost method, depending on the circumstances. We periodically reassess whether we are the primary beneficiary of a VIE. The reassessment process considers whether we have acquired the power to direct the most significant activities of the VIE through changes in governing documents or other circumstances. We also reconsider whether entities previously determined not to be VIEs have become VIEs, based on changes in facts and circumstances including changes in contractual arrangements and capital structure. During 2016, we wrote down an equity method investment to its fair value of zero, resulting in an impairment charge of \$18 million. In addition, we recorded an impairment of \$7 million of uncollectible loans related to this equity method investment.

During the year ended October 31, 2016, Agilent made a preferred stock investment in Lasergen for \$80 million. This investment in Lasergen was accounted for under the cost method. Agilent's initial ownership stake was 48 percent and included an option to acquire the remaining shares until March 2018. During the year ended October 31, 2018, we exercised our option and acquired all of the remaining shares of Lasergen, Inc. that we did not already own for an additional cash consideration of approximately \$107 million. The fair value remeasurement of our previous investment immediately before the acquisition resulted in a net gain of \$20 million and was recorded in other income. Lasergen was previously considered a VIE. As of October 31, 2018, we have no VIE's.

Investments. Cost method investments consist of non-marketable equity securities and are accounted for at historical cost. Trading securities are reported at fair value, with gains or losses resulting from changes in fair value recognized currently in earnings. Equity method investments are reported at the amount of the company's initial investment and adjusted each period for the company's share of the investee's income or loss and dividend paid. The company assesses investments for impairment whenever events or changes in circumstances indicate that the carrying value of an investment may not be recoverable.

Fair Value of Financial Instruments. The carrying values of certain of our financial instruments including cash and cash equivalents, accounts receivable, accounts payable, accrued compensation and other accrued liabilities approximate fair value because of their short maturities. The fair value of long-term equity investments is determined using quoted market prices for those securities when available. For those long-term equity investments accounted for under the cost or equity method, their carrying value approximates their estimated fair value. Equity method investments are reported at the amount of the company's initial investment and adjusted each period for the company's share of the investee's income or loss and dividend paid. There are no equity method investments as of October 31, 2018 or 2017. The fair value of our senior notes, calculated from quoted prices which are primarily Level 1 inputs under the accounting guidance fair value hierarchy is lower than the carrying value by approximately \$15 million as of October 31, 2018 and exceeds the carrying value by approximately \$58 million as of October 31, 2017. The change in the fair value over carrying value in the year ended October 31, 2018 is primarily due to increased market interest rates. The fair value of foreign currency contracts used for hedging purposes is estimated internally by using inputs tied to active markets. These inputs, for example, interest rate yield curves, foreign exchange rates, and forward and spot prices for currencies are observable in the market or can be corroborated by observable market data for substantially the full term of the assets or liabilities. See also Note 10, "Fair Value Measurements" for additional information on the fair value of financial instruments.

Concentration of Credit Risk. Financial instruments that potentially subject Agilent to significant concentration of credit risk include money market fund investments, time deposits and demand deposit balances. These investments are categorized as cash and cash equivalents. In addition, Agilent has credit risk from derivative financial instruments used in hedging activities and accounts receivable. We invest in a variety of financial instruments and limit the amount of credit exposure with any one financial institution. We have a comprehensive credit policy in place and credit exposure is monitored on an ongoing basis.

Credit risk with respect to our accounts receivable is diversified due to the large number of entities comprising our customer base and their dispersion across many different industries and geographies. Credit evaluations are performed on customers requiring credit over a certain amount and we sell the majority of our products through our direct sales force. Credit risk is mitigated through collateral such as letter of credit, bank guarantees or payment terms like cash in advance. No single customer accounted for more than 10 percent of combined accounts receivable as of October 31, 2018, or 2017.

Derivative Instruments. Agilent is exposed to global foreign currency exchange rate and interest rate risks in the normal course of business. We enter into foreign exchange hedging contracts, primarily forward contracts and purchased options and, in the past, interest rate swaps to manage financial exposures resulting from changes in foreign currency exchange rates and interest

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rates. In the vast majority of cases, these contracts are designated at inception as hedges of the related foreign currency or interest exposures. Foreign currency exposures include committed and anticipated revenue and expense transactions and assets and liabilities that are denominated in currencies other than the functional currency of the subsidiary. Interest rate exposures are associated with the company's fixed-rate debt. For option contracts, we exclude time value from the measurement of effectiveness. To qualify for hedge accounting, contracts must reduce the foreign currency exchange rate and interest rate risk otherwise inherent in the amount and duration of the hedged exposures and comply with established risk management policies; foreign exchange hedging contracts generally mature within twelve months and interest rate swaps, if any, mature at the same time as the maturity of the debt. In order to manage foreign currency exposures in a few limited jurisdictions we may enter into foreign exchange contracts that do not qualify for hedge accounting. In such circumstances, the local foreign currency exposure is offset by contracts owned by the parent company. We do not use derivative financial instruments for speculative trading purposes.

All derivatives are recognized on the balance sheet at their fair values. For derivative instruments that are designated and qualify as a fair value hedge, changes in value of the derivative are recognized in the consolidated statement of operations in the current period, along with the offsetting gain or loss on the hedged item attributable to the hedged risk. For derivative instruments that are designated and qualify as a cash flow hedges, changes in the value of the effective portion of the derivative instrument is recognized in comprehensive income (loss), a component of stockholders' equity. Amounts associated with cash flow hedges are reclassified and recognized in income when either the forecasted transaction occurs or it becomes probable the forecasted transaction will not occur. Derivatives not designated as hedging instruments are recorded on the balance sheet at their fair value and changes in the fair values are recorded in the income statement in the current period. Derivative instruments are subject to master netting arrangements and are disclosed gross in the balance sheet. Changes in the fair value of the ineffective portion of derivative instruments are recognized in earnings in the current period. Ineffectiveness in 2018, 2017 and 2016 was not material. Cash flows from derivative instruments are classified in the statement of cash flows in the same category as the cash flows from the hedged or economically hedged item, primarily in operating activities.

Property, Plant and Equipment. Property, plant and equipment are stated at cost less accumulated depreciation. Additions, improvements and major renewals are capitalized; maintenance, repairs and minor renewals are expensed as incurred. When assets are retired or disposed of, the assets and related accumulated depreciation and amortization are removed from our general ledger, and the resulting gain or loss is reflected in the consolidated statement of operations. Buildings and improvements are depreciated over the lesser of their useful lives or the remaining term of the lease and machinery and equipment over three to ten years. We use the straight-line method to depreciate assets.

Leases. We lease buildings, machinery and equipment under operating leases for original terms ranging generally from one year to twenty years. Certain leases contain renewal options for periods up to six years. In addition, we lease equipment to customers in connection with our diagnostics business using both capital and operating leases. As of October 31, 2018 and 2017 our diagnostics and genomics segment has approximately \$32 million and \$27 million, respectively, of lease receivables related to capital leases and approximately \$20 million and \$22 million, respectively, of net assets for operating leases. We depreciate the assets related to the operating leases over their estimated useful lives, typically five years.

Capitalized Software. We capitalize certain internal and external costs incurred to acquire or create internal use software. Capitalized software is included in property, plant and equipment and is depreciated over three to five years once development is complete.

Impairment of Long-Lived Assets. We continually monitor events and changes in circumstances that could indicate carrying amounts of long-lived assets, including intangible assets, may not be recoverable. When such events or changes in circumstances occur, we assess the recoverability of long-lived assets by determining whether the carrying value of such assets will be recovered through undiscounted expected future cash flows. If the total of the undiscounted future cash flows is less than the carrying amount of those assets, we recognize an impairment loss based on the excess of the carrying amount over the fair value of the assets. During 2018, we recorded an impairment charge of \$21 million related to purchased intangible assets within the diagnostics and genomics segment that were deemed unrecoverable.

Employee Compensation and Benefits. Amounts owed to employees, such as accrued salary, bonuses and vacation benefits are accounted for within employee compensation and benefits. The total amount of accrued vacation benefit was \$107 million and \$101 million as of October 31, 2018, and 2017, respectively.

Foreign Currency Translation. We translate and remeasure balance sheet and income statement items into U.S. dollars. For those subsidiaries that operate in a local currency functional environment, all assets and liabilities are translated into U.S. dollars using current exchange rates at the balance sheet date; revenue and expenses are translated using monthly exchange rates

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which approximate to average exchange rates in effect during each period. Resulting translation adjustments are reported as a separate component of accumulated other comprehensive income (loss) in stockholders' equity.

For those subsidiaries that operate in a U.S. dollar functional environment, foreign currency assets and liabilities are remeasured into U.S. dollars at current exchange rates except for non-monetary assets and capital accounts which are remeasured at historical exchange rates. Revenue and expenses are generally remeasured at monthly exchange rates which approximate average exchange rates in effect during each period. Gains or losses from foreign currency remeasurement are included in consolidated net income. Net gains or losses resulting from foreign currency transactions, including hedging gains and losses, are reported in other income (expense), net and was \$3 million loss for 2018, \$2 million loss for 2017 and \$5 million loss for 2016, respectively.

2. NEW ACCOUNTING PRONOUNCEMENTS

New Accounting Pronouncements Not Yet Adopted

In May 2014, the FASB issued new revenue recognition guidance, Accounting Standard Codification Topic 606, Revenue from contract with customers, which provides a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers and will supersede most current revenue recognition guidance. The objective of the new revenue standard is to significantly enhance comparability and clarify principles of revenue recognition practices across entities, industries, jurisdictions and capital markets. The guidance is effective for us at the beginning of our fiscal year 2019. We will adopt this standard on November 1, 2018 through application of the modified retrospective method reflecting the cumulative effect of initially applying the new guidance to revenue recognition in the first quarter of fiscal 2019. Under the new guidance, there are specific criteria to determine if a performance obligation should be recognized over time or at a point in time. We expect that in some cases the revenue recognition timing under the new guidance will change from current practice. We have substantially completed our analysis of the impact of the new guidance in 2018. While the timing of revenue recognition for some of the company's sales transactions will be affected by the new guidance, the impact is not expected to be material. The cumulative impact to beginning retained earnings from adopting the new revenue standard is expected to be a credit of less than \$30 million.

In January 2016, the FASB issued amendments to address certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. The standard requires entities to measure equity investments that do not result in consolidation and are not accounted for under the equity method at fair value and recognize any changes in fair value in net income. The provisions under this amendment are effective for us beginning November 1, 2018, and for interim periods within that year. Early adoption is not permitted. We do not expect this guidance to have a material impact on our consolidated financial statements and disclosures.

In February 2016, the FASB issued guidance which amends the existing accounting standards for leases. Consistent with existing guidance, the recognition, measurement, and presentation of expenses and cash flows arising from a lease by a lessee primarily will depend on its classification. Under the new guidance, a lessee will be required to recognize right-of-use assets and lease liabilities on the balance sheet. The new guidance is effective for us beginning November 1, 2019 using a modified retrospective approach. We are in the process of assessing the impact of the new guidance on our financial statements and consider that the most notable impact upon the adoption of the new standard will be the recognition of a material right-of-use asset and lease liability for our real estate and automobile leases.

In August 2016, the FASB issued amendments to address eight specific cash flow issues with the objective of reducing the existing diversity in practice. The amendments are effective for us beginning November 1, 2018, and for interim periods within that year. We do not expect the impact of the amendments to have a material impact on our consolidated statement of cash flows and disclosures.

In October 2016, the FASB issued amendments to improve the accounting for the income tax consequences of intra-entity transfers of assets other than inventory. The amendments are effective for us beginning November 1, 2018, and for interim periods within that year. There is no material impact expected to our cumulative retained earnings on adoption of these amendments.

In November 2016, the FASB issued amendments to require amounts generally described as restricted cash and restricted cash equivalents be included with cash and cash equivalents when reconciling the beginning-of-period and end-of-period total amounts shown on the statement of cash flows. The amendments are effective for us beginning November 1, 2018, and for interim periods within that year. We do not expect the impact of the amendments to have a material impact on our consolidated statement of cash flows and disclosures.

In January 2017, the FASB issued guidance intended to clarify the definition of a business in connection with business combinations with the objective of adding guidance to assist entities with evaluating whether transactions should be accounted

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for as acquisitions (or disposals) of assets or businesses. This guidance is effective for us beginning November 1, 2018, and for interim periods within that year. Adjustments will be recorded in the period that they are determined rather than applied retrospectively via revision to the period of acquisition and each period thereafter. We do not expect this guidance to have a material impact on our consolidated financial statements and disclosures.

In January 2017, the FASB issued an amendment to modify the concept of impairment from the condition that exists when the carrying amount of goodwill exceeds its implied fair value to the condition that exists when the carrying amount of a reporting unit exceeds its fair value. The amendment also simplifies the subsequent measurement of goodwill by eliminating Step 2 from the goodwill impairment test. The amendments are effective for us beginning November 1, 2020. Early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. We do not expect to early adopt nor do we expect this guidance to have a material impact on our consolidated financial statements and disclosures.

In March 2017, the FASB issued guidance on the presentation of the net periodic pension and postretirement benefit cost. This guidance also specifies that only the service cost component of net benefit cost is eligible for capitalization. The standard requires employers to report the service cost component in the same line item as other compensation costs and to report the other components of net periodic benefit costs (which include interest costs, expected return on plan assets, amortization of prior service cost or credits and actuarial gains and losses) separately and below operating income in the statement of operations. The amendments are effective for us beginning November 1, 2018, including interim periods within those annual periods. We expect the adoption of this guidance to result in an impact of approximately \$20 million of income reclassified from our income from operations to other income (expense) on our consolidated statement of operations in fiscal year 2019. In future filings, we will revise our prior periods to conform to the new presentation required under this guidance.

In May 2017, the FASB issued an update to clarify when to account for a change to the terms or conditions of a share-based payment award as a modification. Under the new guidance, modification accounting is required only if the fair value, the vesting conditions, or the classification of the award (as equity or liability) changes as a result of the change in terms or conditions. The amendments are effective for us beginning November 1, 2018. We do not expect this guidance to have a material impact on our consolidated financial statements and disclosures.

In August 2017, the FASB issued amendments to hedge accounting intended to better align a company's risk management strategies and financial reporting for hedging relationships through changes to both the designation and measurement guidance for qualifying hedging relationships and presentation of hedge results. The amendments expand and refine accounting for both nonfinancial and financial risk components and align the recognition and presentation of the effects of the hedging instrument and hedged item in the financial statements. The amendments are effective for us beginning November 1, 2019, including the interim periods within those annual periods. We expect to early adopt this guidance beginning November 1, 2018. We do not expect the the adoption of this guidance to have a material impact on our consolidated financial statements and disclosures.

In February 2018, the FASB issued amendments to reporting comprehensive income to allow a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the Tax Cuts and Jobs Act that was enacted in December 2017 that reduced the U.S. federal corporate income tax rate and made other changes to U.S. federal tax laws. The amendments in this update also require certain disclosures about stranded tax effects. The amendments are effective for us beginning November 1, 2019, and for interim periods within that fiscal year and should be applied either in the period of adoption or retrospectively to each period (or periods) in which the effect of the change in the U.S. federal corporate income tax rate in the Tax Cuts and Jobs Act is recognized. We expect to adopt this guidance on November 1, 2018. We do not expect the adoption of this guidance to have a material impact on our consolidated financial statements and disclosures upon adoption.

In February 2018, the FASB issued technical corrections and improvements to amendments published in January 2016 to address certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. The provisions under these corrections and improvements are effective for us beginning November 1, 2018, and for interim periods within that year. Early adoption is not permitted. We currently do not expect this guidance to have a material impact on our consolidated financial statements and disclosures.

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In August 2018, the FASB issued updates to improve the disclosure requirements on fair value measurements in Topic 820, Fair Value Measurement which eliminates certain disclosure requirements and modifies others. These amendments are effective for us beginning November 1, 2020, and for interim periods within that year with early adoption permitted. We currently do not expect this guidance to have a material impact on our consolidated financial statements and disclosures.

In August 2018, the FASB issued updates to improve the effectiveness of disclosures for defined benefit plans under Accounting Standard Codification Topic 715-20. The amendments in this guidance remove disclosures that no longer are considered cost beneficial, clarify the specific requirements of disclosures, and add disclosure requirements identified as relevant. These amendments are effective for us beginning November 1, 2021, with early adoption permitted. We currently do not expect this guidance to have a material impact on our consolidated financial statements and disclosures.

Other amendments to GAAP in the U.S. that have been issued by the FASB or other standards-setting bodies that do not require adoption until a future date are not expected to have a material impact on our consolidated financial statements upon adoption.

3. SHARE-BASED COMPENSATION

Agilent accounts for share-based awards in accordance with the provisions of the accounting guidance which requires the measurement and recognition of compensation expense for all share-based payment awards made to our employees and directors including employee stock option awards, restricted stock units, employee stock purchases made under our ESPP and performance share awards granted to selected members of our senior management under the LTPP based on estimated fair values.

Description of Share-Based Plans

Employee Stock Purchase Plan. Effective November 1, 2000, we adopted the ESPP. The ESPP allows eligible employees to contribute up to ten percent of their base compensation to purchase shares of our common stock at 85 percent of the closing market price at purchase date. Currently, there are 75 million shares authorized for issuance in connection with the ESPP.

Under our ESPP, employees purchased 558,116 shares for \$32 million in 2018, 618,270 shares for \$26 million in 2017 and 696,178 shares for \$23 million in 2016. As of October 31, 2018, the number of shares of common stock authorized and available for issuance under our ESPP was 26,937,115. This excludes the number of shares of common stock to be issued to participants in consideration of the aggregate participants contributions totaling \$17 million as of October 31, 2018.

Incentive Compensation Plans. On November 15, 2017 and March 21, 2018, the Board of Directors and the stockholders, respectively, approved the Agilent Technologies, Inc. 2018 Stock Plan (the "2018 Plan") which amends, including renaming and extending the term of, the Agilent Technologies, Inc. 2009 Stock Plan (the "2009 Plan"). The 2009 plan replaced the Agilent Technologies, Inc. Amended and Restated 1999 Stock Plan and 1999 Non-Employee Director Stock Plan. The 2018 Plan provides for the grant of awards in the form of stock options, stock appreciation rights ("SARs"), restricted stock, restricted stock units ("RSUs"), performance shares and performance units with performance-based conditions on vesting or exercisability, and cash awards. The 2018 Plan has a term of ten years. As of October 31, 2018, 6,158,260 shares were available for future awards under the 2018 Stock Plan.

Stock options under the 2018 Stock Plan may be either "incentive stock options", as defined in Section 422 of the Internal Revenue Code, or non-statutory. Options were granted prior to November 1, 2015 and generally vest at a rate of 25 percent per year over a period of four years from the date of grant with a maximum contractual term of ten years. The exercise price for stock options is generally not less than 100 percent of the fair market value of our common stock on the date the stock award is granted. Agilent issues new shares of common stock when employee stock options are exercised.

Effective November 1, 2003, the Compensation Committee of the Board of Directors approved the LTPP, which is a performance stock award program administered under the 2018 Stock Plan, for the company's executive officers and other key employees. Participants in this program are entitled to receive unrestricted shares of the company's stock after the end of a three-year period, if specified performance targets are met. Certain LTPP awards are generally designed to meet the criteria of a performance award with the performance metrics and peer group comparison based on the Total Stockholders' Return ("TSR") set at the beginning of the performance period. Effective November 1, 2015, the Compensation Committee of the Board of Directors approved another type of performance stock award, for the company's executive officers and other key employees. Participants in this program are also entitled to receive unrestricted shares of the company's stock after the end of a three-year period, if specified performance targets over the three-year period are met. The performance target for grants made in 2016 were based on Operating

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Margin ("OM") and the performance grants made in 2017 and 2018 were based on Earnings Per Share ("EPS"). In the case of LTPP-OM, the performance targets for all the three years of performance period are set at the time of grant. The performance targets for LTPP-EPS grants for year 2 and year 3 of the performance period are set in the first quarter of year 2 and year 3, respectively. All LTPP awards granted after November 1, 2015, are subject to a one-year post-vest holding period.

Based on the performance metrics the final LTPP award may vary from zero to 200 percent of the target award. The maximum contractual term for awards under the LTPP program is three years and the maximum award value for awards granted in 2017 and 2016 cannot exceed 300 percent of the grant date target value. We consider the dilutive impact of these programs in our diluted net income per share calculation only to the extent that the performance conditions are expected to be met.

We also issue restricted stock units under our share-based plans. The estimated fair value of the restricted stock unit awards granted under the Stock Plans is determined based on the market price of Agilent's common stock on the date of grant adjusted for expected dividend yield. Restricted stock units generally vest, with some exceptions, at a rate of 25 percent per year over a period of four years from the date of grant. All restricted stock units granted to our executives after November 1, 2015, are subject to a one-year post-vest holding period.

Impact of Share-based Compensation Awards

We have recognized compensation expense based on the estimated grant date fair value method under the authoritative guidance. For all share-based awards we have recognized compensation expense using a straight-line amortization method. As the guidance requires that share-based compensation expense be based on awards that are ultimately expected to vest, estimated share-based compensation has been reduced for estimated forfeitures.

The impact on our results for share-based compensation was as follows:

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
Cost of products and services	\$ 16	\$ 15	\$ 14
Research and development	7	6	6
Selling, general and administrative	48	40	40
Total share-based compensation expense	<u>\$ 71</u>	<u>\$ 61</u>	<u>\$ 60</u>

At October 31, 2018 and 2017 there was no share-based compensation capitalized within inventory.

Valuation Assumptions

For all periods presented, shares granted under the LTPP (TSR) were valued using a Monte Carlo simulation. The ESPP allows eligible employees to purchase shares of our common stock at 85 percent of the fair market value at the purchase date.

The estimated fair value of restricted stock unit awards, LTPP (OM) and LTPP (EPS) was determined based on the market price of Agilent's common stock on the date of grant adjusted for expected dividend yield and as appropriate, a discount related to the one-year post vesting. The compensation cost for LTPP (OM) and LTPP (EPS) awards reflect the cost of awards that are probable to vest at the end of the performance period.

The following assumptions were used to estimate the fair value of awards granted.

	Years Ended October 31,		
	2018	2017	2016
LTPP:			
Volatility of Agilent shares	21%	23%	24%
Volatility of selected peer-company shares	14%-66%	15%-63%	14%-50%
Pair-wise correlation with selected peers	32%	36%	35%
Post-vest restriction discount for all executive awards	4.8%	5.3%	5.5%

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Shares granted under the LTPP (TSR) were valued using a Monte Carlo simulations model. The Monte Carlo simulation fair value model requires the use of highly subjective and complex assumptions, including the price volatility of the underlying stock. For the LTPP (TSR) grants in 2016, we used the 3-year average historical stock price volatility of a group of our peer companies and an expected dividend yield to compute the discount. We believed our historical volatility prior to the separation of Keysight in 2015 was no longer relevant to use. For LTPP (TSR) grants in 2017 and thereafter, we used our own historical stock price volatility.

All LTPP awards granted to our executives have a one-year post-vest holding restriction. The estimated discount associated with post-vest holding restrictions is calculated using the Finnerty model. The model calculates the potential lost value if the employee were able to sell the shares during the lack of marketability period, instead of being required to hold the shares.

Share-Based Payment Award Activity

Employee Stock Options

The following table summarizes employee stock option award activity of our employees and directors for 2018.

	Options Outstanding	Weighted Average Exercise Price
	(in thousands)	
Outstanding at October 31, 2017	2,761	\$ 34
Exercised	(753)	\$ 32
Forfeited	(11)	\$ 41
Outstanding at October 31, 2018	1,997	\$ 35

The options outstanding and exercisable for equity share-based payment awards at October 31, 2018 were as follows:

Range of Exercise Prices	Options Outstanding				Options Exercisable			
	Number Outstanding	Weighted Average Remaining Contractual Life	Weighted Average Exercise Price	Aggregate Intrinsic Value	Number Exercisable	Weighted Average Remaining Contractual Life	Weighted Average Exercise Price	Aggregate Intrinsic Value
\$0 - 25	87	1.0	\$ 22	\$ 3,744	87	1.0	\$ 22	\$ 3,744
\$25.01 - 30	674	3.5	\$ 26	25,862	674	3.5	\$ 26	25,862
\$30.01 - 40	375	5.1	\$ 39	9,635	375	5.1	\$ 39	9,635
\$40.01 - over	861	6.0	\$ 41	20,579	577	6.0	\$ 41	13,793
	1,997	4.8	\$ 35	\$ 59,820	1,713	4.6	\$ 34	\$ 53,034

The aggregate intrinsic value in the table above represents the total pre-tax intrinsic value, based on the company's closing stock price of \$64.79 at October 31, 2018, which would have been received by award holders had all award holders exercised their awards that were in-the-money as of that date. The total number of in-the-money awards exercisable at October 31, 2018 was approximately 1.7 million.

The following table summarizes the aggregate intrinsic value of options exercised in 2018, 2017 and 2016:

	Aggregate Intrinsic Value	Weighted Average Exercise Price
	(in thousands)	
Options exercised in fiscal 2016	\$ 26,913	\$ 25
Options exercised in fiscal 2017	\$ 36,175	\$ 30
Options exercised in fiscal 2018	\$ 28,417	\$ 32

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As of October 31, 2018, the unrecognized share-based compensation costs for outstanding stock option awards, net of expected forfeitures, was not material. The amount of cash received from the exercise of share-based awards granted was \$56 million in 2018, \$66 million in 2017 and \$62 million in 2016.

Non-Vested Awards

The following table summarizes non-vested award activity in 2018 primarily for our LTPP and restricted stock unit awards.

	<u>Shares</u>	<u>Weighted Average Grant Price</u>
	<u>(in thousands)</u>	
Non-vested at October 31, 2017	3,302	\$ 43
Granted	1,136	\$ 68
Vested	(1,377)	\$ 42
Forfeited	(172)	\$ 51
Change in LTPP shares in the year due to exceeding performance targets	292	\$ —
Non-vested at October 31, 2018	<u>3,181</u>	\$ 49

As of October 31, 2018, the unrecognized share-based compensation costs for non-vested restricted stock awards, net of expected forfeitures, was approximately \$74 million which is expected to be amortized over a weighted average period of 2.2 years. The total fair value of restricted stock awards vested was \$58 million for 2018, \$42 million for 2017 and \$21 million for 2016.

4. INCOME TAXES

The domestic and foreign components of income before taxes are:

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
U.S. operations	\$ 169	\$ 116	\$ 27
Non-U.S. operations	777	687	517
Total income before taxes	\$ 946	\$ 803	\$ 544

The provision for income taxes is comprised of:

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
U.S. federal taxes:			
Current	\$ 520	\$ 15	\$ (1)
Deferred	51	110	19
Non-U.S. taxes:			
Current	95	1	77
Deferred	(22)	(7)	(14)
State taxes, net of federal benefit:			
Current	1	1	3
Deferred	(15)	(1)	(2)
Total provision	\$ 630	\$ 119	\$ 82

The differences between the U.S. federal statutory income tax rate and our effective tax rate are:

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
Profit before tax times statutory rate	\$ 221	\$ 281	\$ 190
State income taxes, net of federal benefit	—	2	2
Non-U.S. income taxed at different rates	(93)	(43)	(68)
Change in unrecognized tax benefits	(17)	(110)	(27)
U.S. Tax Reform	552	—	—
Valuation allowances	—	1	18
Adjustments to earnings of foreign subsidiaries	—	—	(11)
Other, net	(33)	(12)	(22)
Provision for income taxes	\$ 630	\$ 119	\$ 82
Effective tax rate	66.6%	14.8%	15.1%

For 2018, the company's income tax expense was \$630 million with an effective tax rate of 66.6 percent. For the year ended October 31, 2018, our effective tax rate and the resulting provision for income taxes were significantly impacted by the discrete charge of \$552 million related to the enactment of the U.S. Tax Cuts and Jobs Act (the "Tax Act") as discussed below.

For 2017, the company's income tax expense was \$119 million with an effective tax rate of 14.8 percent. Our effective tax rate is impacted by earnings realized in foreign jurisdictions with statutory tax rates lower than the federal statutory tax rate. During the year, the company determined a portion of current year foreign earnings from its low tax jurisdictions would not be considered as indefinitely reinvested. As such, a deferred tax liability for that portion of unremitted foreign earnings was accrued causing an increase in the annual tax expense. Our annual effective tax rate also included tax benefits due to the settlement of an audit in Germany for the years 2005 through 2008 and the lapse of U.S. statute of limitation for the fiscal years 2012 and

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2013. This benefit was offset by a deferred tax liability required for the tax expected upon repatriation of related unremitted foreign earnings that were not asserted as indefinitely invested outside the U.S.

For 2016, the company's income tax expense was \$82 million with an effective tax rate of 15.1 percent. The income tax provision for the year ended October 31, 2016 included net discrete tax expense of \$17 million primarily due to tax expense related to the establishment of a valuation allowance on an equity method impairment that would generate a capital loss when realized.

The company has negotiated tax holidays in several different jurisdictions, most significantly in Singapore. The tax holidays provide lower rates of taxation on certain classes of income and require various thresholds of investments and employment or specific types of income in those jurisdictions. In December 2018, the tax holiday in Singapore was renegotiated and extended through 2027, see Note 19, "Subsequent Events" for more information. Other tax holidays are due for renewal 2019 and 2020. As a result of the incentives, the impact of the tax holidays decreased income taxes by \$87 million, \$93 million, and \$86 million in 2018, 2017, and 2016, respectively. The benefit of the tax holidays on net income per share (diluted) was approximately \$0.27, \$0.29, and \$0.26 in 2018, 2017 and 2016, respectively.

2017 U.S. Tax Reform - Tax Cuts and Jobs Act

On December 22, 2017, the Tax Act was enacted into law. The Tax Act enacted significant changes affecting our fiscal year 2018, including, but not limited to, (1) reducing the U.S. federal corporate tax rate and (2) imposing a one-time transition tax on certain unrepatriated earnings of foreign subsidiaries that had not been previously taxed in the U.S.

The Tax Act also establishes new tax provisions affecting our fiscal year 2019, including, but not limited to, (1) creating a new provision designed to tax global intangible low-tax income ("GILTI"); (2) generally eliminating U.S. federal taxes on dividends from foreign subsidiaries; (3) eliminating the corporate alternative minimum tax ("AMT"); (4) creating the base erosion anti-abuse tax ("BEAT"); (5) establishing a deduction for foreign derived intangible income ("FDII"); (6) repealing domestic production activity deduction; and (7) establishing new limitations on deductible interest expense and certain executive compensation.

The Tax Act reduced the U.S. federal corporate tax rate from 35 percent to 21 percent effective January 1, 2018. Due to our fiscal year end, the lower corporate tax rate will be phased in, resulting in a U.S. statutory federal rate of 23 percent for our fiscal year ending October 31, 2018 and 21 percent for subsequent fiscal years.

ASC 740, Income Taxes, requires companies to recognize the effect of the tax law changes in the period of enactment. However, the SEC staff issued Staff Accounting Bulletin 118 ("SAB 118") which allowed companies to record provisional amounts during a measurement period not extending beyond one year from the Tax Act enactment date. For the year ended October 31, 2018, the company recognized income tax expense related to the Tax Act of \$552 million which includes (1) an expense of \$499 million of U.S. transition tax and correlative items on deemed repatriated earnings of non-U.S. subsidiaries and (2) an expense of \$53 million associated with the impact on deferred taxes resulting from the decreased U.S. corporate tax rate as described below. As of October 31, 2018, the company has completed the accounting for all the impacts of the Tax Act except for the policy election for the treatment of the tax on GILTI inclusions.

Deemed Repatriation Transition Tax ("Transition Tax"): The Transition Tax is based on the company's total unrepatriated post-1986 earnings and profits ("E&P") of its foreign subsidiaries and the amount of non-U.S. taxes paid (Tax Pools) on such earnings. Historically, the company permanently reinvested a significant portion of these post-1986 E&P outside the U.S. For the remaining portion, the company previously accrued deferred taxes. Since the Tax Act required all foreign earnings to be taxed currently, the company recorded an income tax expense of \$651 million for its one-time transition U.S. federal tax and a benefit of \$152 million for the reversal of related deferred tax liabilities. The resulting \$499 million net transition tax, reduced by existing tax credits, will be paid over 8 years in accordance with the election available under the Tax Act. We have completed our accounting for charges related to the Transition Tax.

Reduction of U.S. Federal Corporate Tax Rate: The reduction of the corporate income tax rate requires companies to remeasure their deferred tax assets and liabilities as of the date of enactment. The amount recorded for the year ended October 31, 2018 for the remeasurement due to tax rate change is \$53 million. We have completed our accounting for the measurement of deferred taxes.

GILTI: The Tax Act subjects a U.S. corporation to tax on its GILTI. U.S. GAAP allows companies to make an accounting policy election to either (1) treat taxes due on future GILTI inclusions in the U.S. taxable income as a current-period expense

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when incurred (“period cost method”) or (2) factoring such amounts into a company’s measurement of its deferred taxes (“deferred method”). Our analysis of the new GILTI rules and how they may impact us is incomplete. Accordingly, we have not made a policy election regarding the treatment of GILTI tax.

Indefinite Reinvestment Assertion: Prior to the enactment of the Tax Act, the company had indefinite investment assertion on a significant portion of its undistributed earnings from foreign subsidiaries. As a result of the enactment of the Tax Act, we have reevaluated our historic assertion and no longer consider these earnings to be indefinitely reinvested in our foreign subsidiaries. The company repatriated \$1,921 million of foreign earnings in fiscal year 2018. The company has recorded a deferred tax liability of \$11 million for foreign withholding taxes on repatriation of remaining undistributed earnings.

The significant components of deferred tax assets and deferred tax liabilities included on the consolidated balance sheet are:

	October 31,			
	2018		2017	
	Deferred Tax Assets	Deferred Tax Liabilities	Deferred Tax Assets	Deferred Tax Liabilities
	(in millions)			
Inventory	\$ 7	\$ —	\$ 16	\$ —
Intangibles	—	112	—	93
Property, plant and equipment	8	—	12	—
Warranty reserves	8	—	12	—
Pension benefits and retiree medical benefits	49	—	70	—
Employee benefits, other than retirement	34	—	28	—
Net operating loss, capital loss, and credit carryforwards	185	—	328	—
Unremitted earnings of foreign subsidiaries	—	18	—	163
Share-based compensation	31	—	45	—
Deferred revenue	38	—	45	—
Other	4	3	1	—
Subtotal	364	133	557	256
Tax valuation allowance	(135)	—	(138)	—
Total deferred tax assets or deferred tax liabilities	<u>\$ 229</u>	<u>\$ 133</u>	<u>\$ 419</u>	<u>\$ 256</u>

The decrease in 2018 as compared to 2017 for the deferred tax asset and liabilities was primarily due to the Tax Act.

Valuation allowances require an assessment of both positive and negative evidence when determining whether it is more likely than not that deferred tax assets are recoverable. Such assessment is required on a jurisdiction by jurisdiction basis. As of October 31, 2018, we continued to maintain a valuation allowance of \$135 million until sufficient positive evidence exists to support reversal. The valuation allowance is mainly related to deferred tax assets for California R&D credits, net operating losses in the state of Colorado and the Netherlands and capital losses in the U.S. and foreign jurisdictions.

At October 31, 2018, we had federal, state and foreign net operating loss carryforwards of approximately \$21 million, \$671 million and \$330 million, respectively. The federal and state net operating loss carryforwards are subject to various limitations under Section 382 of the Internal Revenue Code and applicable state tax laws. If not utilized, the federal and state net operating loss carryforwards will begin to expire in 2019. If not utilized, \$140 million of the foreign net operating loss carryforwards will begin to expire in 2019. The remaining \$190 million of the foreign net operating losses carry forward indefinitely. At October 31, 2018, we had federal and foreign capital loss carryforwards of \$48 million and \$119 million, respectively. If not utilized, the federal capital loss carryforwards will expire in 2022. The foreign capital losses carry forward indefinitely. At October 31, 2018, we had state tax credit carryforwards, net of reserves of approximately \$41 million. The state tax credits carry forward indefinitely.

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The breakdown between long-term deferred tax assets and deferred tax liabilities was as follows:

	October 31,	
	2018	2017
	(in millions)	
Long-term deferred tax assets (included within other assets)	\$ 165	\$ 240
Long-term deferred tax liabilities (included within other long-term liabilities)	(69)	(77)
Total	\$ 96	\$ 163

The breakdown between current and long-term income tax assets and liabilities, excluding deferred tax assets and liabilities, was as follows:

	October 31,	
	2018	2017
	(in millions)	
Current income tax assets (included within other current assets)	\$ 59	\$ 77
Long-term income tax assets (included within other assets)	19	18
Current income tax liabilities (included within other accrued liabilities)	(71)	(55)
Long-term income tax liabilities (included within other long-term liabilities)	(607)	(131)
Total	\$ (600)	\$ (91)

The aggregate changes in the balances of our unrecognized tax benefits including all federal, state and foreign tax jurisdictions are as follows:

	2018	2017	2016
	(in millions)		
Balance, beginning of year	\$ 224	\$ 293	\$ 289
Additions for tax positions related to the current year	27	32	31
Additions for tax positions from prior years	2	1	1
Reductions for tax positions from prior years	(13)	(3)	(27)
Settlements with taxing authorities	—	(52)	—
Statute of limitations expirations	(26)	(47)	(1)
Balance, end of year	\$ 214	\$ 224	\$ 293

As of October 31, 2018, we had \$214 million of unrecognized tax benefits of which \$190 million, if recognized, would affect our effective tax rate.

We recognized a tax expense of \$11 million, a tax benefit of \$9 million and a tax expense of \$2 million of interest and penalties related to unrecognized tax benefits in 2018, 2017 and 2016, respectively. Interest and penalties accrued as of October 31, 2018 and 2017 were \$27 million and \$16 million, respectively.

In the U.S., tax years remain open back to the year 2015 for federal income tax purposes and the year 2000 for significant states. There were no substantial changes to the status of these open tax years during 2018. The U.S. statute of limitation for audit of tax returns for fiscal year 2014 expired in July 2018. The statute expiration resulted in the recognition of previously unrecognized tax benefits of \$23 million.

In other major jurisdictions where the company conducts business, the tax years generally remain open back to the year 2001.

With these jurisdictions and the U.S., it is reasonably possible that there could be significant changes to our unrecognized tax benefits in the next twelve months due to either the expiration of a statute of limitation or a tax audit settlement which will be partially offset by an anticipated tax liability related to unremitted foreign earnings, where applicable. Given the number of years and numerous matters that remain subject to examination in various tax jurisdictions, management is unable to estimate the range of possible changes to the balance of our unrecognized tax benefits.

5. NET INCOME PER SHARE

The following is a reconciliation of the numerators and denominators of the basic and diluted net income per share computations for the periods presented below.

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
Numerator:			
Net income	\$ 316	\$ 684	\$ 462
Denominators:			
Basic weighted average shares	321	322	\$ 326
Potential common shares — stock options and other employee stock plans	4	4	3
Diluted weighted average shares	325	326	329

The dilutive effect of share-based awards is reflected in diluted net income per share by application of the treasury stock method, which includes consideration of unamortized share-based compensation expense and the dilutive effect of in-the-money options and non-vested restricted stock units. Under the treasury stock method, the amount the employee must pay for exercising stock options and unamortized share-based compensation expense collectively are assumed proceeds to be used to repurchase hypothetical shares. An increase in the fair market value of the company's common stock can result in a greater dilutive effect from potentially dilutive awards.

We exclude stock options with exercise prices greater than the average market price of our common stock from the calculation of diluted earnings per share because their effect would be anti-dilutive. In addition, we exclude from the calculation of diluted earnings per share, stock options, ESPP, LTTP and restricted stock awards whose combined exercise price and unamortized fair value collectively were greater than the average market price of our common stock because their effect would also be anti-dilutive.

In 2018, 2017 and 2016, we issued approximately 2 million, 3 million and 3 million, of share-based awards, respectively. For the years ended 2018, 2017 and 2016, options to purchase 36,200 shares, 200 shares and 1.1 million shares, respectively, were excluded from the calculation of diluted earnings per share as their effect would be anti-dilutive.

6. INVENTORY

	October 31,	
	2018	2017
	(in millions)	
Finished goods	\$ 386	\$ 363
Purchased parts and fabricated assemblies	252	212
Inventory	\$ 638	\$ 575

Inventory-related excess and obsolescence charges, included in continuing operations, of \$26 million were recorded in total cost of products in 2018, \$24 million in 2017 and \$20 million in 2016, respectively. We record excess and obsolete inventory charges for both inventory on our site as well as inventory at our contract manufacturers and suppliers where we have non-cancellable purchase commitments.

7. PROPERTY, PLANT AND EQUIPMENT, NET

	October 31,	
	2018	2017
	(in millions)	
Land	\$ 55	\$ 56
Buildings and leasehold improvements	952	886
Machinery and equipment	512	470
Software	141	188
Total property, plant and equipment	1,660	1,600
Accumulated depreciation and amortization	(838)	(843)
Property, plant and equipment, net	<u>\$ 822</u>	<u>\$ 757</u>

In 2018, we retired approximately \$68 million of fully depreciated assets, primarily related to software, that were no longer in use. There were less than \$1 million asset impairments in 2018 and no asset impairments in 2017 and 2016. Depreciation expenses were \$102 million in 2018, \$94 million in 2017 and \$95 million in 2016.

8. GOODWILL AND OTHER INTANGIBLE ASSETS

The goodwill balances at October 31, 2018, 2017 and 2016 and the movements in 2018 and 2017 for each of our reportable segments are shown in the table below:

	Life Sciences and Applied Markets	Diagnostics and Genomics	Agilent CrossLab	Total
	(in millions)			
Goodwill as of October 31, 2016	\$ 745	\$ 1,268	\$ 504	\$ 2,517
Foreign currency translation impact	2	10	—	12
Goodwill arising from acquisitions	26	52	—	78
Goodwill as of October 31, 2017	\$ 773	\$ 1,330	\$ 504	\$ 2,607
Foreign currency translation impact	(7)	(4)	(4)	(15)
Goodwill arising from acquisitions	37	281	63	381
Goodwill as of October 31, 2018	<u>\$ 803</u>	<u>\$ 1,607</u>	<u>\$ 563</u>	<u>\$ 2,973</u>

In May 2018, we re-organized our operating segments and moved our microfluidics business from our life sciences and applied markets operating segment to our diagnostics and genomics operating segment. As a result, we reassigned approximately \$45 million of goodwill from our life sciences and applied markets segment to our diagnostics and genomics segment using the relative fair value allocation approach. Goodwill balances as of October 31, 2017 and 2016, have been recast to conform to this new presentation.

As of September 30, 2018, we assessed goodwill impairment for our reporting units and no impairment was indicated.

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The component parts of other intangible assets at October 31, 2018 and 2017 are shown in the table below:

	Other Intangible Assets		
	Gross Carrying Amount	Accumulated Amortization and Impairments	Net Book Value
(in millions)			
As of October 31, 2017:			
Purchased technology	\$ 855	\$ 646	\$ 209
Trademark/Tradename	149	73	76
Customer relationships	151	112	39
Third-party technology and licenses	\$ 27	\$ 14	\$ 13
Total amortizable intangible assets	\$ 1,182	\$ 845	\$ 337
In-Process R&D	24	—	24
Total	\$ 1,206	\$ 845	\$ 361
As of October 31, 2018:			
Purchased technology	\$ 947	\$ 683	\$ 264
Trademark/Tradename	151	88	63
Customer relationships	107	63	44
Third-party technology and licenses	\$ 28	\$ 19	\$ 9
Total amortizable intangible assets	\$ 1,233	\$ 853	\$ 380
In-Process R&D	111	—	111
Total	\$ 1,344	\$ 853	\$ 491

In 2018, we acquired seven businesses, for a combined purchase price of approximately \$536 million. The largest of which was Advanced Analytical Technologies, Inc. ("AATI") for approximately \$268 million in cash. The financial results of all these businesses have been included in our financial results from the date of the business' respective close. We have not included the pro forma impact of these acquisitions since they are not material individually or in aggregate to our current or prior period results. During 2018, we recorded additions to goodwill of \$381 million and to other intangible assets of \$262 million related to the acquisition of these businesses. During 2018, other intangible assets, net decreased \$1 million, due to the impact of foreign exchange translation.

During 2017, we recorded additions to goodwill of \$78 million and to intangible assets of \$52 million related to the acquisition of two businesses. During the year other intangible assets decreased \$5 million, due to the impact of foreign exchange translation.

During 2018, we also wrote-off the gross carrying amount of \$89 million and the related accumulated amortization of fully amortized intangible assets which were no longer being used.

In general, for United States federal tax purposes, goodwill from asset purchases is deductible, however any goodwill created as part of a stock acquisition is not deductible.

During 2018, we recorded an impairment charge of \$21 million related to purchased intangible assets within the diagnostics and genomics segment that were deemed unrecoverable. In 2017, there were no impairments of other intangible assets recorded. In 2016, we recorded impairments of other intangibles related to the cancellation of in-process research and development projects of \$4 million.

Amortization expense of intangible assets was \$110 million in 2018, \$120 million in 2017, and \$154 million in 2016.

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Future amortization expense related to existing finite-lived purchased intangible assets associated with business combinations for the next five fiscal years and thereafter is estimated below:

Estimated future amortization expense:

	(in millions)	
2019	\$	94
2020	\$	79
2021	\$	65
2022	\$	51
2023	\$	41
Thereafter	\$	50

9. INVESTMENTS

The following table summarizes the company's equity investments as of October 31, 2018 and 2017 (net book value):

	October 31,	
	2018	2017
	(in millions)	
Long-Term		
Cost method investments	\$ 38	\$ 106
Trading securities	30	32
Total	\$ 68	\$ 138

During 2018, we acquired all of the remaining shares of Lasergen, Inc. (Lasergen), for an additional cash consideration of approximately \$107 million, an investment that was accounted for under the cost method in 2017 for approximately \$80 million. The fair value remeasurement of our previous investment immediately before the acquisition resulted in a net gain of \$20 million and was recorded in other income. Cost method investments consist of non-marketable equity securities and a fund and are accounted for at historical cost. Trading securities are reported at fair value, with gains or losses resulting from changes in fair value recognized currently in earnings.

All of our investments, excluding trading securities, are subject to periodic impairment review. The impairment analysis requires significant judgment to identify events or circumstances that would likely have significant adverse effect on the future value of the investment. We consider various factors in determining whether an impairment is other-than-temporary, including the severity and duration of the impairment, forecasted recovery, the financial condition and near-term prospects of the investee, and our ability and intent to hold the investment for a period of time sufficient to allow for any anticipated recovery in market value. During the year ended October 31, 2016, we identified certain events and circumstances that indicated the decline in value of an equity method investment was other-than-temporary. As a result, we wrote down the investment to its fair value of zero, resulting in an impairment charge of approximately \$18 million.

Amounts included in other income (expense), net for the appropriate share of loss on equity method investments and other than temporary impairments were as follows:

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
Equity method investments - share of losses	\$ —	\$ —	\$ (10)
Equity method investments - other than temporary impairments	—	—	(18)
Total	\$ —	\$ —	\$ (28)

Net unrealized gains on our trading securities portfolio were \$1 million in 2018, \$4 million in 2017 and \$1 million in 2016.

10. FAIR VALUE MEASUREMENTS

The authoritative guidance defines fair value as the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. When determining the fair value

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measurements for assets and liabilities required or permitted to be recorded at fair value, we consider the principal or most advantageous market and assumptions that market participants would use when pricing the asset or liability.

Fair Value Hierarchy

The guidance establishes a fair value hierarchy that prioritizes the use of inputs used in valuation techniques into three levels. A financial instrument's categorization within the fair value hierarchy is based upon the lowest level of input that is significant to the fair value measurement. There are three levels of inputs that may be used to measure fair value:

Level 1 — applies to assets or liabilities for which there are quoted prices in active markets for identical assets or liabilities.

Level 2 — applies to assets or liabilities for which there are inputs other than quoted prices included within level 1 that are observable, either directly or indirectly, for the asset or liability such as: quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities in less active markets; or other inputs that can be derived principally from, or corroborated by, observable market data.

Level 3 — applies to assets or liabilities for which there are unobservable inputs to the valuation methodology that are significant to the measurement of the fair value of the assets or liabilities.

Financial Assets and Liabilities Measured at Fair Value on a Recurring Basis

Financial assets and liabilities measured at fair value on a recurring basis as of October 31, 2018 were as follows:

	Fair Value Measurement at October 31, 2018 Using			
	October 31, 2018	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
(in millions)				
Assets:				
Short-term				
Cash equivalents (money market funds)	\$ 1,355	\$ 1,355	\$ —	\$ —
Derivative instruments (foreign exchange contracts)	16	—	16	—
Long-term				
Trading securities	30	30	—	—
Total assets measured at fair value	\$ 1,401	\$ 1,385	\$ 16	\$ —
Liabilities:				
Short-term				
Derivative instruments (foreign exchange contracts)	\$ 5	\$ —	\$ 5	\$ —
Long-term				
Deferred compensation liability	30	—	30	—
Total liabilities measured at fair value	\$ 35	\$ —	\$ 35	\$ —

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Financial assets and liabilities measured at fair value on a recurring basis as of October 31, 2017 were as follows:

	Fair Value Measurement at October 31, 2017 Using			
	October 31, 2017	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
(in millions)				
Assets:				
Short-term				
Cash equivalents (money market funds)	\$ 1,659	\$ 1,659	\$ —	\$ —
Derivative instruments (foreign exchange contracts)	4	—	4	—
Long-term				
Trading securities	32	32	—	—
Total assets measured at fair value	\$ 1,695	\$ 1,691	\$ 4	\$ —
Liabilities:				
Short-term				
Derivative instruments (foreign exchange contracts)	\$ 6	\$ —	\$ 6	\$ —
Long-term				
Deferred compensation liability	32	—	32	—
Total liabilities measured at fair value	\$ 38	\$ —	\$ 38	\$ —

Our money market funds and trading securities are generally valued using quoted market prices and therefore are classified within level 1 of the fair value hierarchy. Our derivative financial instruments are classified within level 2, as there is not an active market for each hedge contract, but the inputs used to calculate the value of the instruments are tied to active markets. Our deferred compensation liability is classified as level 2 because although the values are not directly based on quoted market prices, the inputs used in the calculations are observable.

Trading securities, which is comprised of mutual funds, bonds and other similar instruments, and deferred compensation liability are reported at fair value, with gains or losses resulting from changes in fair value recognized currently in net income. Certain derivative instruments are reported at fair value, with unrealized gains and losses, net of tax, included in accumulated other comprehensive loss within stockholders' equity. Realized gains and losses from the sale of these instruments are recorded in net income.

Assets and Liabilities Measured at Fair Value on a Non-Recurring Basis

Long-Lived Assets

For assets measured at fair value on a non-recurring basis, the following table summarizes the impairments included in net income for the years ended October 31, 2018, 2017 and 2016:

	Years Ended October 31,		
	2018	2017	2016
(in millions)			
Long-lived assets held and used	\$ 21	\$ —	\$ 4
Long-lived assets held for sale	\$ —	\$ —	\$ —

For 2018, long-lived assets held and used with a carrying amount of \$21 million were written down to their fair value of zero, resulting in an impairment charge of \$21 million, which was included in net income. The impairment charge in 2018 of \$21 million relates to purchased intangible assets within the diagnostics and genomics segment that were deemed unrecoverable. For 2017, there were no impairments of long-lived assets held and used. For 2016, long-lived assets held and used with a carrying amount of \$4 million were written down to their fair value of zero, resulting in an impairment charge of \$4 million, which was

included in net income. The impairment charge in 2016 of \$4 million relates to IPR&D projects that were abandoned and written down to their fair value of zero.

There were no impairments of long-lived assets held for sale in 2018, 2017 and 2016.

Fair values for the impaired long-lived assets during 2018 and 2016 were measured using level 3 and 2 inputs respectively. To determine the fair value of long-lived assets in 2018, we used the income approach based on projected discounted cash flows expected to be generated by the long-lived assets over the remaining useful life.

11. DERIVATIVES

We are exposed to foreign currency exchange rate fluctuations and interest rate changes in the normal course of our business. As part of our risk management strategy, we use derivative instruments, primarily forward contracts, purchased options, and interest rate swaps, to hedge economic and/or accounting exposures resulting from changes in foreign currency exchange rates and interest rates.

Fair Value Hedges

We are exposed to interest rate risk due to the mismatch between the interest expense we pay on our loans at fixed rates and the variable rates of interest we receive from cash, cash equivalents and other short-term investments. We have issued long-term debt in U.S. dollars at fixed interest rates based on the market conditions at the time of financing. The fair value of our fixed rate debt changes when the underlying market rates of interest change, and, in the past, we have used interest rate swaps to change our fixed interest rate payments to U.S. dollar LIBOR-based variable interest expense to match the floating interest income from our cash, cash equivalents and other short term investments. As of October 31, 2018, all interest rate swap contracts had either been terminated or had expired.

On August 9, 2011, we terminated five interest rate swap contracts related to our 2020 senior notes that represented the notional amount of \$500 million. The remaining gain to be amortized at October 31, 2018 was \$7 million. All deferred gains from terminated interest rate swaps are being amortized over the remaining life of the respective senior notes.

Cash Flow Hedges

We enter into foreign exchange contracts to hedge our forecasted operational cash flow exposures resulting from changes in foreign currency exchange rates. These foreign exchange contracts, carried at fair value, have maturities between one and twelve months. These derivative instruments are designated and qualify as cash flow hedges under the criteria prescribed in the authoritative guidance and are assessed for effectiveness against the underlying exposure every reporting period. Changes in the time value of the foreign exchange contract are excluded from the assessment of hedge effectiveness and are recognized in other income (expense) each period. The changes in fair value of the effective portion of the derivative instrument are recognized in accumulated other comprehensive income (loss). Amounts associated with cash flow hedges are reclassified to cost of sales in the consolidated statement of operations when the forecasted transaction occurs. If it becomes probable that the forecasted transaction will not occur, the hedge relationship will be de-designated and amounts accumulated in other comprehensive income will be reclassified to other income (expense) in the current period. Changes in the fair value of the ineffective portion of derivative instruments are recognized in other income (expense) in the consolidated statement of operations in the current period. We record the premium paid (time value) of an option on the date of purchase as an asset. For options designated as cash flow hedges, changes in the time value are excluded from the assessment of hedge effectiveness and are recognized in other income (expense) over the life of the option contract. For the years ended October 31, 2018, 2017 and 2016, ineffectiveness and gains and losses recognized in other income (expense) due to de-designation of cash flow hedge contracts were not significant.

In July 2012, Agilent executed treasury lock agreements for \$400 million in connection with future interest payments to be made on our 2022 senior notes issued on September 10, 2012. We designated the treasury lock as a cash flow hedge. The treasury lock contracts were terminated on September 10, 2012 and we recognized a deferred gain in accumulated other comprehensive income which is being amortized to interest expense over the life of the 2022 senior notes. The remaining gain to be amortized related to the treasury lock agreements at October 31, 2018 was \$1 million.

In February 2016, Agilent executed three forward-starting pay fixed/receive variable interest rate swaps for the notional amount of \$300 million in connection with future interest payments to be made on our 2026 senior notes issued on September 15, 2016. These derivative instruments were designated and qualified as cash flow hedges under the criteria prescribed in the

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authoritative guidance. The swap arrangements were terminated on September 15, 2016 with a payment of \$10 million and we recognized this as a deferred loss in accumulated other comprehensive income which is being amortized to interest expense over the life of the 2026 senior notes. The remaining loss to be amortized related to the interest rate swap agreements at October 31, 2018 was \$7 million.

Other Hedges

Additionally, we enter into foreign exchange contracts to hedge monetary assets and liabilities that are denominated in currencies other than the functional currency of our subsidiaries. These foreign exchange contracts are carried at fair value and do not qualify for hedge accounting treatment and are not designated as hedging instruments. Changes in value of the derivative instruments are recognized in other income (expense) in the consolidated statement of operations, in the current period, along with the offsetting foreign currency gain or loss on the underlying assets or liabilities.

Our use of derivative instruments exposes us to credit risk to the extent that the counterparties may be unable to meet the terms of the agreement. We do, however, seek to mitigate such risks by limiting our counterparties to major financial institutions which are selected based on their credit ratings and other factors. We have established policies and procedures for mitigating credit risk that include establishing counterparty credit limits, monitoring credit exposures, and continually assessing the creditworthiness of counterparties.

A number of our derivative agreements contain threshold limits to the net liability position with counterparties and are dependent on our corporate credit rating determined by the major credit rating agencies. The counterparties to the derivative instruments may request collateralization, in accordance with derivative agreements, on derivative instruments in net liability positions.

The aggregate fair value of all derivative instruments with credit-risk-related contingent features that were in a net liability position as of October 31, 2018, was not material. The credit-risk-related contingent features underlying these agreements had not been triggered as of October 31, 2018.

There were 158 foreign exchange forward contracts open as of October 31, 2018 and designated as cash flow hedges. There were 171 foreign exchange forward contracts open as of October 31, 2018 not designated as hedging instruments. The aggregated notional amounts by currency and designation as of October 31, 2018 were as follows:

Currency	Derivatives Designated as Cash Flow Hedges		Derivatives Not Designated as Hedging Instruments	
	Forward Contracts USD		Forward Contracts USD	
	Buy/(Sell)		Buy/(Sell)	
	(in millions)			
Euro	\$	(44)	\$	37
British Pound		(54)		16
Canadian Dollar		(39)		13
Australian Dollars		4		1
Malaysian Ringgit		—		(2)
Japanese Yen		(91)		14
Danish Krone		—		25
Korean Won		(34)		(31)
Singapore Dollar		14		6
Swiss Franc		—		(9)
Chinese Yuan Renminbi		(38)		(25)
Polish Zloty		—		(5)
Swedish Krona		—		(9)
Other		—		(14)
	\$	(282)	\$	17

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Derivative instruments are subject to master netting arrangements and are disclosed gross in the balance sheet in accordance with the authoritative guidance. The gross fair values and balance sheet location of derivative instruments held in the consolidated balance sheet as of October 31, 2018 and 2017 were as follows:

Fair Values of Derivative Instruments					
Asset Derivatives			Liability Derivatives		
Balance Sheet Location	Fair Value		Balance Sheet Location	Fair Value	
	October 31, 2018	October 31, 2017		October 31, 2018	October 31, 2017
(in millions)					
Derivatives designated as hedging instruments:					
<i>Cash flow hedges</i>					
Foreign exchange contracts					
Other current assets	\$ 11	\$ 2	Other accrued liabilities	\$ 1	\$ 2
	\$ 11	\$ 2		\$ 1	\$ 2
Derivatives not designated as hedging instruments:					
Foreign exchange contracts					
Other current assets	\$ 5	\$ 2	Other accrued liabilities	\$ 4	\$ 4
Total derivatives	\$ 16	\$ 4		\$ 5	\$ 6

The effect of derivative instruments for foreign exchange contracts designated as hedging instruments and not designated as hedging instruments in our consolidated statement of operations were as follows:

	Years Ended October 31,		
	2018	2017	2016
(in millions)			
Derivatives designated as hedging instruments:			
<i>Cash flow hedges</i>			
Loss on interest rate swaps recognized in other comprehensive income (loss)	\$ —	\$ —	\$ (9)
Loss reclassified from accumulated other comprehensive income into interest expense	\$ (1)	\$ —	\$ —
Gain (loss) recognized in accumulated other comprehensive income (loss)	\$ 7	\$ —	\$ (1)
Gain (loss) reclassified from accumulated other comprehensive income (loss) into cost of sales	\$ (3)	\$ 1	\$ (3)
Derivatives not designated as hedging instruments:			
Gain (loss) recognized in other income (expense), net within continuing operations	\$ (2)	\$ 5	\$ 1

At October 31, 2018 the estimated amount of existing net gain expected to be reclassified from accumulated other comprehensive income to cost of sales within the next twelve months is \$12 million.

12. RETIREMENT PLANS AND POST RETIREMENT PENSION PLANS

General. Substantially all of our employees are covered under various defined benefit and/or defined contribution retirement plans. Additionally, we sponsor post-retirement health care benefits for our eligible U.S. employees.

Agilent provides U.S. employees, who meet eligibility criteria under the Agilent Technologies, Inc. Retirement Plan (the "RP"), defined benefits which are based on an employee's base or target pay during the years of employment and on length of service. For eligible service through October 31, 1993, the benefit payable under the Agilent Retirement Plans is reduced by any amounts due to the eligible employee under the Agilent defined contribution Deferred Profit-Sharing Plan (the "DPSP"), which was closed to new participants as of November 1993. Effective November 1, 2014, Agilent's U.S. defined benefit retirement plan is closed to new entrants including new employees, new transfers to the U.S. payroll and rehires. As of April 30, 2016, benefits under the RP were frozen. See Plan Amendments below.

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As of October 31, 2018 and 2017, the fair value of plan assets of the DPSP was \$141 million and \$156 million, respectively. Note that the projected benefit obligation for the DPSP equals the fair value of plan assets.

In addition to the DPSP, in the U.S., Agilent maintains a Supplemental Benefits Retirement Plan ("SBRP"), supplemental unfunded non-qualified defined benefit plan to provide benefits that would be provided under the RP but for limitations imposed by the Internal Revenue Code. The RP and the SBRP comprise the "U.S. Plans" in the tables below.

Eligible employees outside the U.S. generally receive retirement benefits under various retirement plans based upon factors such as years of service and/or employee compensation levels. Eligibility is generally determined in accordance with local statutory requirements.

401(k) Defined Contribution Plan. Eligible Agilent U.S. employees may participate in the Agilent Technologies, Inc. 401(k) Plan. Effective April 30, 2016, we began matching contributions to employees up to a maximum of 6 percent of an employee's annual eligible compensation. Effective May 1, 2016 until April 30, 2022, we will provide an additional transitional company contribution for certain eligible employees equal to 3 percent, 4 percent or 5 percent of an employee's annual eligible compensation due to the RP benefits being frozen. The maximum contribution to the 401(k) Plan is 50 percent of an employee's annual eligible compensation, subject to regulatory limitations. The 401(k) Plan employer expense included in income from operations was \$37 million in 2018, \$33 million in 2017 and \$24 million in 2016.

Post-Retirement Medical Benefit Plans. In addition to receiving retirement benefits, Agilent U.S. employees who meet eligibility requirements as of their termination date may participate in the Agilent Technologies, Inc. Health Plan for Retirees. Eligible retirees who were less than age 50 as of January 1, 2005 and who retire after age 55 with 15 or more years of service are eligible for a fixed amount which can be utilized to pay for either sponsored plans and/or individual medicare plans. Effective January 1, 2012, employees who were at least age 50 as of January 1, 2005 and who retire after age 55 with 15 or more years of service are eligible for fixed dollar subsidies and stipends. Grandfathered retirees receive a fixed monthly subsidy toward pre-65 premium costs (subsidy capped at 2011 levels) and a fixed monthly stipend post-65. The subsidy amounts will not increase. In addition, any new employee hired on or after November 1, 2014, will not be eligible to participate in the retiree medical plans upon retiring. As of April 30, 2016, benefits under this plan were changed - see Plan Amendments below.

Plan Amendments. In 2016, we made changes to our U.S. Retirement Plan and Supplemental Benefits Retirement Plan ("U.S. Plans"). Effective April 30, 2016, benefit accruals under the U.S. Plans were frozen. Any pension benefit earned in the U.S. Plans through April 30, 2016 remained fully vested, and there were no additional benefit accruals after April 30, 2016. In addition, active employees who have not met the eligibility requirement for the Retiree Medical Account (RMA) under the U.S. Post Retirement Benefit Plan - 55 years old with at least 15 years of Agilent service - as of April 30, 2016 - will only be eligible for 50 percent of the current RMA reimbursement amount upon retirement.

Due to these plan amendments, we recorded a curtailment gain of \$15 million in the U.S. Plans during the year ended October 31, 2016. In addition, we recognized a settlement gain of \$1 million related to the U.S. Supplemental Benefits Retirement Plan during the year ended October 31, 2016.

Japanese Welfare Pension Insurance Law. In Japan, Agilent has employees' pension fund plans, which are defined benefit pension plans established under the Japanese Welfare Pension Insurance Law (JWPIL). The plans are composed of (a) a substitutional portion based on the pay-related part of the old-age pension benefits prescribed by JWPIL (similar to social security benefits in the United States) and (b) a corporate portion based on a contributory defined benefit pension arrangement established at the discretion of the company. During the year ended October 31, 2017, Agilent received government approval and returned the substitutional portion of Japan's pension plan to the Japanese government, as allowed by the JWPIL. The initial transfer resulted in a net gain of \$32 million recorded within cost of sales and operating expenses in the consolidated statement of operations. The net gain consisted of two parts - a gain of \$41 million, representing the difference between the fair values of the Accumulated Benefit Obligation (ABO) settled of \$65 million and the assets transferred from the pension trust to the government of Japan of \$24 million, offset by a settlement loss of \$9 million related to the recognition of previously unrecognized actuarial losses included in accumulated other comprehensive income. In the first quarter of fiscal year 2018, after the Japanese government's final review of our initial payment, we received a refund of \$5 million which was recorded as a settlement gain.

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Components of Net periodic cost. The company uses alternate methods of amortization as allowed by the authoritative guidance which amortizes the actuarial gains and losses on a consistent basis for the years presented. For U.S. Plans, gains and losses are amortized over the average future lifetime of participants using the corridor method. For most Non-U.S. Plans and U.S. Post-Retirement Benefit Plans, gains and losses are amortized using a separate layer for each year's gains and losses. For the years ended October 31, 2018, 2017 and 2016, components of net periodic benefit cost and other amounts recognized in other comprehensive income were comprised of:

	Pensions								
	U.S. Plans			Non-U.S. Plans			U.S. Post-Retirement Benefit Plans		
	2018	2017	2016	2018	2017	2016	2018	2017	2016
	(in millions)								
Net periodic benefit cost (benefit)									
Service cost — benefits earned during the period	\$ —	\$ —	\$ 12	\$ 20	\$ 19	\$ 19	\$ 1	\$ 1	\$ 1
Interest cost on benefit obligation	16	15	16	13	12	16	3	3	4
Expected return on plan assets	(28)	(25)	(25)	(46)	(41)	(44)	(7)	(7)	(7)
Amortization of net actuarial loss	1	3	3	29	36	27	8	11	10
Amortization of prior service benefit	—	—	(3)	—	—	—	(8)	(9)	(10)
Total periodic benefit cost (benefit)	\$ (11)	\$ (7)	\$ 3	\$ 16	\$ 26	\$ 18	\$ (3)	\$ (1)	\$ (2)
Curtailments and settlements	\$ —	\$ —	\$ (16)	\$ (5)	\$ (32)	\$ —	\$ —	\$ —	\$ —
Other changes in plan assets and benefit obligations recognized in other comprehensive (income) loss									
Net actuarial (gain) loss	\$ 2	\$ (19)	\$ 22	\$ 49	\$ (128)	\$ 149	\$ (2)	\$ (9)	\$ 3
Amortization of net actuarial loss	(1)	(3)	(3)	(29)	(36)	(27)	(8)	(11)	(10)
Prior service cost (benefit)	—	—	15	—	—	—	—	—	(7)
Amortization of prior service benefit	—	—	3	—	—	—	8	9	10
Gain due to settlement	—	—	—	—	32	—	—	—	—
Foreign currency	—	—	—	1	2	(3)	—	—	—
Total recognized in other comprehensive (income) loss	\$ 1	\$ (22)	\$ 37	\$ 21	\$ (130)	\$ 119	\$ (2)	\$ (11)	\$ (4)
Total recognized in net periodic benefit cost (benefit) and other comprehensive (income) loss	\$ (10)	\$ (29)	\$ 24	\$ 32	\$ (136)	\$ 137	\$ (5)	\$ (12)	\$ (6)

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Funded Status. As of October 31, 2018 and 2017, the funded status of the defined benefit and post-retirement benefit plans was:

	U.S. Defined Benefit Plans		Non-U.S. Defined Benefit Plans		U.S. Post-Retirement Benefit Plans	
	2018	2017	2018	2017	2018	2017
(in millions)						
Change in fair value of plan assets:						
Fair value — beginning of year	\$ 414	\$ 341	\$ 855	\$ 774	\$ 95	\$ 88
Actual return on plan assets	8	66	(9)	81	1	14
Employer contributions	—	25	21	21	—	—
Participants' contributions	—	—	—	—	—	—
Benefits paid	(21)	(18)	(26)	(23)	(6)	(7)
Settlements	—	—	5	(26)	—	—
Currency impact	—	—	(21)	28	—	—
Fair value — end of year	<u>\$ 401</u>	<u>\$ 414</u>	<u>\$ 825</u>	<u>\$ 855</u>	<u>\$ 90</u>	<u>\$ 95</u>
Change in benefit obligation:						
Benefit obligation — beginning of year	\$ 445	\$ 434	\$ 935	\$ 1,002	\$ 97	\$ 103
Service cost	—	—	20	19	1	1
Interest cost	16	15	13	12	3	3
Participants' contributions	—	—	—	—	—	—
Plan amendment	—	—	1	(1)	—	—
Actuarial (gain) loss	(19)	15	(6)	(43)	(7)	(3)
Benefits paid	(22)	(19)	(27)	(22)	(7)	(7)
Curtailments	—	—	—	—	—	—
Settlements	—	—	—	(70)	—	—
Currency impact	—	—	(23)	38	—	—
Benefit obligation — end of year	<u>\$ 420</u>	<u>\$ 445</u>	<u>\$ 913</u>	<u>\$ 935</u>	<u>\$ 87</u>	<u>\$ 97</u>
Overfunded (underfunded) status of PBO	<u>\$ (19)</u>	<u>\$ (31)</u>	<u>\$ (88)</u>	<u>\$ (80)</u>	<u>\$ 3</u>	<u>\$ (2)</u>
Amounts recognized in the consolidated balance sheet consist of:						
Other assets	\$ —	\$ —	\$ 95	\$ 86	\$ 3	\$ —
Employee compensation and benefits	(1)	(1)	—	—	—	—
Retirement and post-retirement benefits	(18)	(30)	(183)	(166)	—	(2)
Total net asset (liability)	<u>\$ (19)</u>	<u>\$ (31)</u>	<u>\$ (88)</u>	<u>\$ (80)</u>	<u>\$ 3</u>	<u>\$ (2)</u>
Amounts Recognized in Accumulated Other Comprehensive Income (loss):						
Actuarial (gains) losses	\$ 65	\$ 65	\$ 263	\$ 243	\$ 10	\$ 20
Prior service costs (benefits)	—	—	—	(1)	(20)	(28)
Total	<u>\$ 65</u>	<u>\$ 65</u>	<u>\$ 263</u>	<u>\$ 242</u>	<u>\$ (10)</u>	<u>\$ (8)</u>

The amounts in accumulated other comprehensive income expected to be recognized by Agilent as components of net expense during 2019 are as follows:

	U.S. Defined Benefit Plans		Non-U.S. Defined Benefit Plans		U.S. Post-Retirement Benefit Plans	
	(in millions)					
Amortization of net prior service cost (benefit)	\$ —	\$ —	\$ —	\$ —	\$ (8)	\$ (8)
Amortization of actuarial net loss (gain)	\$ 1	\$ 1	\$ 35	\$ 35	\$ 4	\$ 4

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Investment Policies and Strategies as of October 31, 2018 and 2017. In the U.S., target asset allocations for our retirement and post-retirement benefit plans are approximately 80 percent to equities and approximately 20 percent to fixed income investments. Our DPSP target asset allocation is approximately 60 percent to equities and approximately 40 percent to fixed income investments. Approximately 3 percent of our U.S. equity portfolio consists of limited partnerships. The general investment objective for all our plan assets is to obtain the optimum rate of investment return on the total investment portfolio consistent with the assumption of a reasonable level of risk. Specific investment objectives for the plans' portfolios are to: maintain and enhance the purchasing power of the plans' assets; achieve investment returns consistent with the level of risk being taken; and earn performance rates of return in accordance with the benchmarks adopted for each asset class. Outside the U.S., our target asset allocation is from 31 to 60 percent to equities, from 38 to 61 percent to fixed income investments, and from zero to 25 percent to real estate investments and from zero to 12 percent to cash, depending on the plan. All plans' assets are broadly diversified. Due to fluctuations in equity markets, our actual allocations of plan assets at October 31, 2018 and 2017 differ from the target allocation. Our policy is to bring the actual allocation in line with the target allocation.

Equity securities include exchange-traded common stock and preferred stock of companies from broadly diversified industries. Fixed income securities include a global portfolio of corporate bonds of companies from diversified industries, government securities, mortgage-backed securities, asset-backed securities, derivative instruments and other. Other investments include a group trust consisting primarily of private equity partnerships. Portions of the cash and cash equivalent, equity, and fixed income investments are held in commingled funds that are valued using Net Asset Value ("NAV") as the practical expedient. In addition, some of the investments valued using NAV as the practical expedient may have limits on their redemption to weekly or monthly and/or may require prior written notice specified by each fund.

Fair Value. The measurement of the fair value of pension and post-retirement plan assets uses the valuation methodologies and the inputs as described in Note 10, "Fair Value Measurements".

Cash and Cash Equivalents - Cash and cash equivalents consist of short-term investment funds. The funds also invest in short-term domestic fixed income securities and other securities with debt-like characteristics emphasizing short-term maturities and quality. Some of our cash and cash equivalents are held in commingled funds. Other cash and cash equivalents are classified as Level 1 investments.

Equity - Some equity securities consisting of common and preferred stock that are not traded on an active market are valued at quoted prices reported by investment dealers based on the underlying terms of the security and comparison to similar securities traded on an active market; these are classified as Level 2 investments. Securities which have quoted prices in active markets are classified as Level 1 investments.

Fixed Income - Some of the fixed income securities are not actively traded and are valued at quoted prices based on the terms of the security and comparison to similar securities traded on an active market; these are classified as Level 2 investments. Securities which have quoted prices in active markets are classified as Level 1 investments.

Other Investments - Other investments also includes partnership investments where, due to their private nature, pricing inputs are not readily observable. Asset valuations are developed by the general partners that manage the partnerships. These valuations are based on proprietary appraisals, application of public market multiples to private company cash flows, utilization of market transactions that provide valuation information for comparable companies and other methods. Holdings of limited partnerships are classified as Level 3.

Agilent has adopted the accounting guidance related to the presentation of certain investments using the NAV practical expedient. The accounting guidance exempts investments using this practical expedient from categorization within the fair value hierarchy.

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The following tables present the fair value of U.S. Defined Benefit Plans assets classified under the appropriate level of the fair value hierarchy as of October 31, 2018 and 2017.

	Fair Value Measurement at October 31, 2018 Using				
	October 31, 2018	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Not Subject to Leveling ⁽¹⁾
	(in millions)				
Cash and Cash Equivalents	\$ 4	\$ —	\$ —	\$ —	\$ 4
Equity	308	69	—	—	239
Fixed Income	83	36	5	—	42
Other Investments	6	—	—	6	—
Total assets measured at fair value	<u>\$ 401</u>	<u>\$ 105</u>	<u>\$ 5</u>	<u>\$ 6</u>	<u>\$ 285</u>

(1) Investments measured at the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

	Fair Value Measurement at October 31, 2017 Using				
	October 31, 2017	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Not Subject to Leveling ⁽¹⁾
	(in millions)				
Cash and Cash Equivalents	\$ 4	\$ 1	\$ —	\$ —	\$ 3
Equity	327	88	—	—	239
Fixed Income	76	38	—	—	38
Other Investments	7	—	—	7	—
Total assets measured at fair value	<u>\$ 414</u>	<u>\$ 127</u>	<u>\$ —</u>	<u>\$ 7</u>	<u>\$ 280</u>

(1) Investments measured at the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

For U.S. Defined Benefit Plans assets measured at fair value using significant unobservable inputs (level 3), the following table summarizes the change in balances during 2018 and 2017:

	Years Ended October 31.	
	2018	2017
Balance, beginning of year	\$ 7	\$ 9
Realized gains/(losses)	—	(3)
Unrealized gains/(losses)	1	3
Purchases, sales, issuances, and settlements	(2)	(2)
Transfers in (out)	—	—
Balance, end of year	<u>\$ 6</u>	<u>\$ 7</u>

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The following tables present the fair value of U.S. Post-Retirement Benefit Plans assets classified under the appropriate level of the fair value hierarchy as of October 31, 2018 and 2017.

	Fair Value Measurement at October 31, 2018 Using				
	October 31, 2018	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Not Subject to Leveling ⁽¹⁾
	(in millions)				
Cash and Cash Equivalents	\$ 3	\$ —	\$ —	\$ —	\$ 3
Equity	65	15	—	—	50
Fixed Income	18	9	—	—	9
Other Investments	4	—	—	4	—
Total assets measured at fair value	<u>\$ 90</u>	<u>\$ 24</u>	<u>\$ —</u>	<u>\$ 4</u>	<u>\$ 62</u>

(1) Investments measured at the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

	Fair Value Measurement at October 31, 2017 Using				
	October 31, 2017	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Not Subject to Leveling ⁽¹⁾
	(in millions)				
Cash and Cash Equivalents	\$ 6	\$ 5	\$ —	\$ —	\$ 1
Equity	68	18	—	—	50
Fixed Income	17	9	—	—	8
Other Investments	4	—	—	4	—
Total assets measured at fair value	<u>\$ 95</u>	<u>\$ 32</u>	<u>\$ —</u>	<u>\$ 4</u>	<u>\$ 59</u>

(1) Investments measured at the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

For U.S. Post-Retirement Benefit Plans assets measured at fair value using significant unobservable inputs (level 3), the following table summarizes the change in balances during 2018 and 2017:

	Years Ended October 31,	
	2018	2017
Balance, beginning of year	\$ 4	\$ 5
Realized gains/(losses)	—	(2)
Unrealized gains/(losses)	1	2
Purchases, sales, issuances, and settlements	(1)	(1)
Transfers in (out)	—	—
Balance, end of year	<u>\$ 4</u>	<u>\$ 4</u>

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The following tables present the fair value of non-U.S. Defined Benefit Plans assets classified under the appropriate level of the fair value hierarchy as of October 31, 2018 and 2017:

	Fair Value Measurement at October 31, 2018 Using				
	October 31, 2018	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Not Subject to Leveling ⁽¹⁾
	(in millions)				
Cash and Cash Equivalents	\$ 2	\$ —	\$ 2	\$ —	\$ —
Equity	489	298	34	—	157
Fixed Income	334	76	228	—	30
Other Investments	—	—	—	—	—
Total assets measured at fair value	<u>\$ 825</u>	<u>\$ 374</u>	<u>\$ 264</u>	<u>\$ —</u>	<u>\$ 187</u>

(1) Investments measured at the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

	Fair Value Measurement at October 31, 2017 Using				
	October 31, 2017	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Not Subject to Leveling ⁽¹⁾
	(in millions)				
Cash and Cash Equivalents	\$ 8	\$ —	\$ 8	\$ —	\$ —
Equity	539	326	28	—	185
Fixed Income	307	60	229	—	18
Other Investments	1	—	1	—	—
Total assets measured at fair value	<u>\$ 855</u>	<u>\$ 386</u>	<u>\$ 266</u>	<u>\$ —</u>	<u>\$ 203</u>

(1) Investments measured at the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy.

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The table below presents the combined projected benefit obligation ("PBO"), accumulated benefit obligation ("ABO") and fair value of plan assets, grouping plans using comparisons of the PBO and ABO relative to the plan assets as of October 31, 2018 or 2017.

	2018		2017	
	Benefit Obligation PBO	Fair Value of Plan Assets	Benefit Obligation PBO	Fair Value of Plan Assets
(in millions)				
U.S. defined benefit plans where PBO exceeds the fair value of plan assets	\$ 420	\$ 401	\$ 445	\$ 414
U.S. defined benefit plans where fair value of plan assets exceeds PBO	—	—	—	—
Total	\$ 420	\$ 401	\$ 445	\$ 414
Non-U.S. defined benefit plans where PBO exceeds or is equal to the fair value of plan assets	\$ 563	\$ 380	\$ 563	\$ 397
Non-U.S. defined benefit plans where fair value of plan assets exceeds PBO	350	445	372	458
Total	\$ 913	\$ 825	\$ 935	\$ 855
ABO				
U.S. defined benefit plans where ABO exceeds the fair value of plan assets	\$ 420	\$ 401	\$ 445	\$ 414
U.S. defined benefit plans where the fair value of plan assets exceeds ABO	—	—	—	—
Total	\$ 420	\$ 401	\$ 445	\$ 414
Non-U.S. defined benefit plans where ABO exceeds or is equal to the fair value of plan assets	\$ 543	\$ 380	\$ 539	\$ 397
Non-U.S. defined benefit plans where fair value of plan assets exceeds ABO	343	445	365	458
Total	\$ 886	\$ 825	\$ 904	\$ 855

Contributions and Estimated Future Benefit Payments. During fiscal year 2019, we do not expect to contribute to the U.S. defined benefit plans and the Post-Retirement Medical Plans. We expect to contribute \$23 million to plans outside the U.S. The following table presents expected future benefit payments for the next 10 years:

	U.S. Defined Benefit Plans	Non-U.S. Defined Benefit Plans	U.S. Post-Retirement Benefit Plans
	(in millions)		
2019	\$ 29	\$ 23	\$ 8
2020	\$ 31	\$ 25	\$ 8
2021	\$ 30	\$ 28	\$ 8
2022	\$ 29	\$ 31	\$ 7
2023	\$ 30	\$ 33	\$ 7
2024 - 2028	\$ 142	\$ 175	\$ 33

Assumptions. The assumptions used to determine the benefit obligations and expense for our defined benefit and post-retirement benefit plans are presented in the tables below. The expected long-term return on assets below represents an estimate of long-term returns on investment portfolios consisting of a mixture of equities, fixed income and alternative investments in proportion to the asset allocations of each of our plans. We consider long-term rates of return, which are weighted based on the asset classes (both historical and forecasted) in which we expect our pension and post-retirement funds to be invested. Discount rates reflect the current rate at which pension and post-retirement obligations could be settled based on the measurement dates of the plans - October 31. The U.S. discount rates at October 31, 2018 and 2017, were determined based on the results of matching expected plan benefit payments with cash flows from a hypothetically constructed bond portfolio. The non-U.S. rates were generally

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based on published rates for high-quality corporate bonds. The range of assumptions that were used for the non-U.S. defined benefit plans reflects the different economic environments within various countries.

Assumptions used to calculate the net periodic cost in each year were as follows:

	For years ended October 31,		
	2018	2017	2016
U.S. defined benefit plans:			
Discount rate	3.75%	3.75%	4.20%
Average increase in compensation levels	n/a	n/a	3.50%
Expected long-term return on assets	7.00%	7.25%	7.50%
Non-U.S. defined benefit plans:			
Discount rate	0.67-2.52%	0.22-2.66%	0.77-3.76%
Average increase in compensation levels	2.00-3.25%	2.00-4.25%	2.25-4.00%
Expected long-term return on assets	4.00-6.00%	4.00-6.25%	4.25-6.50%
U.S. post-retirement benefits plans:			
Discount rate	3.50%	3.50%	4.00%
Expected long-term return on assets	7.00%	7.25%	7.50%
Current medical cost trend rate	6.00%	6.00%	7.00%
Ultimate medical cost trend rate	3.50%	3.50%	3.50%
Medical cost trend rate decreases to ultimate rate in year	2029	2029	2029

Assumptions used to calculate the benefit obligation were as follows:

	As of the Years Ending October 31,	
	2018	2017
U.S. defined benefit plans:		
Discount rate	4.50%	3.75%
Non-U.S. defined benefit plans:		
Discount rate	0.83-2.68%	0.67-2.52%
Average increase in compensation levels	2.25-3.25%	2.00-3.25%
U.S. post-retirement benefits plans:		
Discount rate	4.25%	3.50%
Current medical cost trend rate	6.00%	6.00%
Ultimate medical cost trend rate	3.50%	3.50%
Medical cost trend rate decreases to ultimate rate in year	2029	2029

Health care trend rates do not have a significant effect on the total service and interest cost components or on the post-retirement benefit obligation amounts reported for the U.S. Post-Retirement Benefit Plan for the year ended October 31, 2018.

13. GUARANTEES

Standard Warranty

We accrue for standard warranty costs based on historical trends in warranty charges as a percentage of net product shipments. The accrual is reviewed regularly and periodically adjusted to reflect changes in warranty cost estimates. Estimated warranty charges are recorded within cost of products at the time products are sold. The standard warranty accrual balances are held in other accrued and other long-term liabilities on our consolidated balance sheet. Our standard warranty terms typically extend to one years from the date of delivery, depending on the product.

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A summary of the standard warranty accrual activity is shown in the table below. The standard warranty accrual balances are held in other accrued and other long-term liabilities.

	October 31,	
	2018	2017
	(in millions)	
Balance as of October 31, 2017 and 2016	\$ 34	\$ 35
Accruals for warranties including change in estimates	53	53
Settlements made during the period	(52)	(54)
Balance as of October 31, 2018 and 2017	<u>\$ 35</u>	<u>\$ 34</u>
Accruals for warranties due within one year	35	33
Accruals for warranties due after one year	—	1
Balance as of October 31, 2018 and 2017	<u>\$ 35</u>	<u>\$ 34</u>

Indemnifications in Connection with Transactions

In connection with various divestitures, acquisitions, spin-offs and other transactions, we have agreed to indemnify certain parties, their affiliates and/or other related parties against certain damages and expenses that might occur in the future. These indemnifications may cover a variety of liabilities, including, but not limited to, employee, tax, environmental, intellectual property, litigation and other liabilities related to the business conducted prior to the date of the transaction. In our opinion, the fair value of these indemnification obligations was not material as of October 31, 2018.

Indemnifications to Officers and Directors

Our corporate by-laws require that we indemnify our officers and directors, as well as those who act as directors and officers of other entities at our request, against expenses, judgments, fines, settlements and other amounts actually and reasonably incurred in connection with any proceedings arising out of their services to Agilent and such other entities, including service with respect to employee benefit plans. In addition, we have entered into separate indemnification agreements with each director and each board-appointed officer of Agilent which provide for indemnification of these directors and officers under similar circumstances and under additional circumstances. The indemnification obligations are more fully described in the by-laws and the indemnification agreements. We purchase standard insurance to cover claims or a portion of the claims made against our directors and officers. Since a maximum obligation is not explicitly stated in our by-laws or in our indemnification agreements and will depend on the facts and circumstances that arise out of any future claims, the overall maximum amount of the obligations cannot be reasonably estimated. Historically, we have not made payments related to these obligations, and the fair value for these indemnification obligations was not material as of October 31, 2018.

Other Indemnifications

As is customary in our industry and as provided for in local law in the U.S. and other jurisdictions, many of our standard contracts provide remedies to our customers and others with whom we enter into contracts, such as defense, settlement, or payment of judgment for intellectual property claims related to the use of our products. From time to time, we indemnify customers, as well as our suppliers, contractors, lessors, lessees, companies that purchase our businesses or assets and others with whom we enter into contracts, against combinations of loss, expense, or liability arising from various triggering events related to the sale and the use of our products and services, the use of their goods and services, the use of facilities and state of our owned facilities, the state of the assets and businesses that we sell and other matters covered by such contracts, usually up to a specified maximum amount. In addition, from time to time we also provide protection to these parties against claims related to undiscovered liabilities, additional product liability or environmental obligations. In our experience, claims made under such indemnifications are rare and the associated estimated fair value of the liability was not material as of October 31, 2018.

In connection with the sale of several of our businesses, we have agreed to indemnify the buyers of such business, their respective affiliates and other related parties against certain damages that they might incur in the future. The continuing indemnifications primarily cover damages relating to liabilities of the businesses that Agilent retained and did not transfer to the buyers, as well as other specified items. In our opinion, the fair value of these indemnification obligations was not material as of October 31, 2018.

14. COMMITMENTS AND CONTINGENCIES

Operating Lease Commitments: We lease certain real and personal property from unrelated third parties under non-cancelable operating leases. Certain leases require us to pay property taxes, insurance and routine maintenance, and include escalation clauses. Total rent expense was \$64 million in 2018, \$57 million in 2017 and \$61 million in 2016.

Future minimum lease payments and future minimum lease income under operating leases at October 31, 2018:

	Future Minimum Lease Payments		Future Minimum Lease Income	
	(in millions)			
2019	\$	42	\$	9
2020	\$	35	\$	8
2021	\$	23	\$	9
2022	\$	13	\$	4
2023	\$	10	\$	—
Thereafter	\$	57	\$	—

Other Purchase Commitments. Typically, we can cancel contracts with professional services suppliers without penalties. For those contracts that are not cancelable without penalties, the termination fees and costs or commitments for continued spending that we are obligated to pay to a supplier under each contract's termination period before such contract can be cancelled were approximately \$80 million. Approximately \$27 million of the penalties for the new contracts will reduce over the next 15 years.

Contingencies: We are involved in lawsuits, claims, investigations and proceedings, including, but not limited to, intellectual property, commercial, real estate, environmental and employment matters, which arise in the ordinary course of business. There are no matters pending that we currently believe are reasonably possible of having a material impact to our business, consolidated financial condition, results of operations or cash flows.

15. SHORT-TERM DEBT

Credit Facilities

On September 15, 2014, Agilent entered into a credit agreement with a financial institution which provides for a \$400 million five-year unsecured credit facility that will expire on September 15, 2019. On June 9, 2015, the commitments under the existing credit facility were increased by \$300 million and on July 14, 2017, the commitments under the existing credit facility were increased by an additional \$300 million so that the aggregate commitments under the facility now total \$1 billion. As of October 31, 2018, the company had no borrowings outstanding under the credit facility. We were in compliance with the covenants for the credit facility during the years ended October 31, 2018 and 2017.

2017 Senior Notes

In October 2007, the company issued an aggregate principal amount of \$600 million in senior notes ("2017 senior notes"). On October 20, 2014, we settled the redemption of \$500 million of the \$600 million outstanding aggregate principal amount of our 2017 senior notes. The 2017 senior notes were repayable within one year as of October 31, 2017 and were reclassified to short-term debt. The remaining \$100 million in senior notes matured and were paid in full on November 1, 2017.

16. LONG-TERM DEBT

Senior Notes

The following table summarizes the company's long-term senior notes and the related interest rate swaps:

	October 31, 2018			October 31, 2017		
	Amortized Principal	Swap	Total	Amortized Principal	Swap	Total
	(in millions)					
2020 Senior Notes	\$ 499	\$ 7	\$ 506	\$ 499	\$ 11	\$ 510
2022 Senior Notes	399	—	399	398	—	398
2023 Senior Notes	597	—	597	596	—	596
2026 Senior Notes	297	—	297	297	—	297
Total	\$ 1,792	\$ 7	\$ 1,799	\$ 1,790	\$ 11	\$ 1,801

2020 Senior Notes

In July 2010, the company issued an aggregate principal amount of \$500 million in senior notes ("2020 senior notes"). The 2020 senior notes were issued at 99.54% of their principal amount. The notes will mature on July 15, 2020, and bear interest at a fixed rate of 5.00% per annum. The interest is payable semi-annually on January 15th and July 15th of each year, payments commenced on January 15, 2011.

On August 9, 2011, we terminated our interest rate swap contracts related to our 2020 senior notes that represented the notional amount of \$500 million. The asset value, including interest receivable, upon termination for these contracts was approximately \$34 million and the amount to be amortized at October 31, 2018 was \$7 million. The gain is being deferred and amortized to interest expense over the remaining life of the 2020 senior notes.

2022 Senior Notes

In September 2012, the company issued an aggregate principal amount of \$400 million in senior notes ("2022 senior notes"). The 2022 senior notes were issued at 99.80% of their principal amount. The notes will mature on October 1, 2022, and bear interest at a fixed rate of 3.20% per annum. The interest is payable semi-annually on April 1st and October 1st of each year, payments commenced on April 1, 2013.

In July 2012, Agilent executed treasury lock agreements for \$400 million in connection with future interest payments to be made on our 2022 senior notes issued on September 10, 2012. The treasury lock contracts were terminated on September 10, 2012 and we recognized a deferred gain in accumulated other comprehensive income which is being amortized to interest expense over the life of the 2022 senior notes. The remaining gain to be amortized related to the treasury lock agreements at October 31, 2018 was \$1 million.

2023 Senior Notes

In June 2013, the company issued aggregate principal amount of \$600 million in senior notes ("2023 senior notes"). The 2023 senior notes were issued at 99.544% of their principal amount. The notes will mature on July 15, 2023 and bear interest at a fixed rate of 3.875% per annum. The interest is payable semi-annually on January 15th and July 15th of each year and payments commenced January 15, 2014.

2026 Senior Notes

On September 15, 2016, the company issued aggregate principal amount of \$300 million in senior notes ("2026 senior notes"). The 2026 senior notes were issued at 99.624% of their principal amount. The notes will mature on September 22, 2026 and bear interest at a fixed rate of 3.050% per annum. The interest is payable semi-annually on March 22nd and September 22nd of each year and payments commenced March 22, 2017.

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In February 2016, Agilent executed three forward-starting pay fixed/receive variable interest rate swaps for the notional amount of \$300 million in connection with future interest payments to be made on our 2026 senior notes issued on September 15, 2016. The swap arrangements were terminated on September 15, 2016 with a payment of \$10 million and we recognized this as a deferred loss in accumulated other comprehensive income which is being amortized to interest expense over the life of the 2026 senior notes. The remaining loss to be amortized related to the interest rate swap agreements at October 31, 2018 was \$7 million.

17. STOCKHOLDERS' EQUITY

Stock Repurchase Program

On November 22, 2013 we announced that our board of directors had authorized a share repurchase program. The program was designed to reduce or eliminate dilution resulting from issuance of stock under the company's employee equity incentive programs to target maintaining a weighted average share count of approximately 335 million diluted shares. For the year ended October 31, 2016 we repurchased 2 million shares for \$98 million which completed the purchases under this authorization.

On May 28, 2015 we announced that our board of directors had approved a new share repurchase program (the "2015 repurchase program"). The 2015 share repurchase program authorizes the purchase of up to \$1.14 billion of our common stock at the company's discretion through and including November 1, 2018. The 2015 repurchase program does not require the company to acquire a specific number of shares and may be suspended or discontinued at any time. During the year ended October 31, 2016, upon the completion of our previous repurchase program, we repurchased approximately 8.3 million shares for \$336 million under this authorization. During the year ended October 31, 2017, we repurchased approximately 4.1 million shares for \$194 million under this authorization. During the year ended October 31, 2018 we repurchased and retired approximately 6.4 million shares for \$422 million under this authorization. As of October 31, 2018, we had remaining authorization to repurchase up to \$188 million of our common stock under this program which expired on November 1, 2018.

On November 19, 2018 we announced that our board of directors had approved a new share repurchase program (the "2019 repurchase program") designed, among other things, to reduce or eliminate dilution resulting from issuance of stock under the company's employee equity incentive programs. The 2019 share repurchase program authorizes the purchase of up to \$1.75 billion of our common stock at the company's discretion and has no fixed termination date. The 2019 repurchase program does not require the company to acquire a specific number of shares and may be suspended, amended or discontinued at any time.

Cash Dividends on Shares of Common Stock

During the year ended October 31, 2018, cash dividends of \$0.596 per share, or \$191 million were declared and paid on the company's outstanding common stock. During the year ended October 31, 2017, cash dividends of \$0.528 per share, or \$170 million were declared and paid on the company's outstanding common stock. During the year ended October 31, 2016, cash dividends of \$0.460 per share, or \$150 million were declared and paid on the company's outstanding common stock.

On November 14, 2018 we declared a quarterly dividend of \$0.164 per share of common stock, or approximately \$52 million which will be paid on January 23, 2019 to shareholders of record as of the close of business on December 31, 2018. The timing and amounts of any future dividends are subject to determination and approval by our board of directors.

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Accumulated Other Comprehensive Income (Loss)

The following table summarizes the components of our accumulated other comprehensive income (loss) as of October 31, 2018 and 2017, net of tax effect:

	October 31,	
	2018	2017
	(in millions)	
Foreign currency translation, net of tax expense of \$(15) and \$(8) for 2018 and 2017, respectively	\$ (214)	(156)
Unrealized losses (including prior service benefit) on defined benefit plans, net of tax benefit of \$132 and \$127 for 2018 and 2017, respectively	(201)	(188)
Unrealized gains (losses) on derivative instruments, net of tax benefit of \$0 and \$2 for 2018 and 2017, respectively	7	(2)
Total accumulated other comprehensive loss	<u>\$ (408)</u>	<u>\$ (346)</u>

Changes in accumulated other comprehensive income (loss) by component and related tax effects for the years ended October 31, 2018 and 2017 were as follows (in millions):

	Foreign currency translation	Net defined benefit pension cost and post retirement plan costs		Unrealized gains (losses) on derivatives	Total
		Prior service credits	Actuarial Losses		
	(in millions)				
As of October 31, 2016	\$ (197)	\$ 146	\$ (451)	\$ (1)	\$ (503)
Other comprehensive income before reclassifications	44	—	116	—	160
Amounts reclassified out of accumulated other comprehensive income	—	(9)	59	(1)	49
Tax (expense) benefit	(3)	3	(52)	—	(52)
Other comprehensive income (loss)	<u>41</u>	<u>(6)</u>	<u>123</u>	<u>(1)</u>	<u>157</u>
As of October 31, 2017	<u>\$ (156)</u>	<u>\$ 140</u>	<u>\$ (328)</u>	<u>\$ (2)</u>	<u>\$ (346)</u>
Other comprehensive income (loss) before reclassifications	(51)	—	(49)	7	(93)
Amounts reclassified out of accumulated other comprehensive income	—	(8)	39	4	35
Tax (expense) benefit	(7)	2	3	(2)	(4)
Other comprehensive income (loss)	<u>(58)</u>	<u>(6)</u>	<u>(7)</u>	<u>9</u>	<u>(62)</u>
As of October 31, 2018	<u>\$ (214)</u>	<u>\$ 134</u>	<u>\$ (335)</u>	<u>\$ 7</u>	<u>\$ (408)</u>

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Reclassifications out of accumulated other comprehensive income (loss) for the years ended October 31, 2018 and 2017 were as follows (in millions):

Details about Accumulated Other Comprehensive Income components	Amounts Reclassified from Other Comprehensive Income		Affected line item in statement of operations
	2018	2017	
Unrealized gains and (losses) on derivatives	\$ (4)	\$ 1	Cost of products and interest expense
	(4)	1	Total before income tax
	1	—	(Provision)/benefit for income tax
	(3)	1	Total net of income tax
Net defined benefit pension cost and post retirement plan costs:			
Actuarial net loss	(39)	(59)	Cost of sales and operating expenses
Prior service benefit	8	9	Cost of sales and operating expenses
	(31)	(50)	Total before income tax
	10	14	(Provision)/benefit for income tax
	(21)	(36)	Total net of income tax
Total reclassifications for the period	\$ (24)	\$ (35)	

Amounts in parentheses indicate reductions to income and increases to other comprehensive income.

Reclassifications of prior service benefit and actuarial net loss in respect of retirement plans and post retirement pension plans are included in the computation of net periodic cost (see Note 12, "Retirement Plans and Post Retirement Pension Plans").

18. SEGMENT INFORMATION

Description of Segments. We are a global leader in life sciences, diagnostics and applied chemical markets, providing application focused solutions that include instruments, software, services and consumables for the entire laboratory workflow.

Agilent has three business segments comprised of the life sciences and applied markets business, diagnostics and genomics business and the Agilent CrossLab business each of which comprises a reportable segment. The three operating segments were determined based primarily on how the chief operating decision maker views and evaluates our operations. Operating results are regularly reviewed by the chief operating decision maker to make decisions about resources to be allocated to the segment and to assess its performance. Other factors, including market separation and customer specific applications, go-to-market channels, products and services and manufacturing are considered in determining the formation of these operating segments.

In 2018, we re-organized our operating segments and moved our microfluidics business from our life sciences and applied markets operating segment to our diagnostics and genomics operating segment. Following this re-organization, we continue to have three business segments comprised of the life sciences and applied markets business, diagnostics and genomics business and the Agilent CrossLab business. All historical financial segment information for both the life sciences and applied markets segment and the diagnostics and genomics segment has been recast to reflect this reorganization in our financial statements.

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A description of our three reportable segments is as follows:

Our life sciences and applied markets business provides application-focused solutions that include instruments and software that enable customers to identify, quantify and analyze the physical and biological properties of substances and products, as well as enable customers in the clinical and life sciences research areas to interrogate samples at the molecular and cellular level. Key product categories include: liquid chromatography ("LC") systems and components; liquid chromatography mass spectrometry ("LCMS") systems; gas chromatography ("GC") systems and components; gas chromatography mass spectrometry ("GCMS") systems; inductively coupled plasma mass spectrometry ("ICP-MS") instruments; atomic absorption ("AA") instruments; microwave plasma-atomic emission spectrometry ("MP-AES") instruments; inductively coupled plasma optical emission spectrometry ("ICP-OES") instruments; raman spectroscopy, cell analysis plate based assays, flow cytometer; real-time cell analyzer, laboratory software for sample tracking, information management and analytics; laboratory automation and robotic systems; dissolution testing; vacuum pumps and measurement technologies.

Our diagnostics and genomics business is comprised of six areas of activity providing active pharmaceutical ingredients ("APIs") for oligo-based therapeutics as well as solutions that include reagents, instruments, software and consumables, which enable customers in the clinical and life sciences research areas to interrogate samples at the cellular and molecular level. First, our genomics business includes arrays for DNA mutation detection, genotyping, gene copy number determination, identification of gene rearrangements, DNA methylation profiling, gene expression profiling, as well as next generation sequencing ("NGS") target enrichment and genetic data management and interpretation support software. This business also includes solutions that enable clinical labs to identify DNA variants associated with genetic disease and help direct cancer therapy. Second, our nucleic acid solutions business provides equipment and expertise focused on production of synthesized oligonucleotides under pharmaceutical good manufacturing practices ("GMP") conditions for use as API in an emerging class of drugs that utilize nucleic acid molecules for disease therapy. Third, our pathology solutions business is focused on product offerings for cancer diagnostics and anatomic pathology workflows. The broad portfolio of offerings includes immunohistochemistry ("IHC"), in situ hybridization ("ISH"), hematoxylin and eosin ("H&E") staining and special staining. Fourth, we also collaborate with a number of major pharmaceutical companies to develop new potential pharmacodiagnosics, also known as companion diagnostics, which may be used to identify patients most likely to benefit from a specific targeted therapy. Fifth, the reagent partnership business is a provider of reagents used for turbidimetry and flow cytometry. Finally, our biomolecular analysis business provides complete workflow solutions, including instruments, consumables and software, for quality control analysis of nucleic acid samples. Samples are analyzed using quantitative and qualitative techniques to ensure accuracy in further genomics analysis techniques utilized in clinical and life science research applications.

The Agilent CrossLab business spans the entire lab with its extensive consumables and services portfolio, which is designed to improve customer outcomes. Most of the portfolio is vendor neutral, meaning Agilent can serve and supply customers regardless of their instrument purchase choices. Solutions range from chemistries and supplies to services and software helping to connect the entire lab. Key product categories in consumables include GC and LC columns, sample preparation products, custom chemistries, and a large selection of laboratory instrument supplies. Services include startup, operational, training and compliance support, software as a service, as well as asset management and consultative services that help increase customer productivity. Custom service and consumable bundles are tailored to meet the specific application needs of various industries and to keep instruments fully operational and compliant with the respective industry requirements.

A significant portion of the segments' expenses arise from shared services and infrastructure that we have historically provided to the segments in order to realize economies of scale and to efficiently use resources. These expenses, collectively called corporate charges, include legal, accounting, tax, real estate, insurance services, information technology services, treasury, order administration, other corporate infrastructure expenses and costs of centralized research and development. Charges are allocated to the segments, and the allocations have been determined on a basis that we consider to be a reasonable reflection of the utilization of services provided to or benefits received by the segments. In addition, we do not allocate amortization and impairment of acquisition-related intangible assets, pension curtailment or settlement gains, restructuring and transformational initiatives expenses, acquisition and integration costs, business exit and divestiture costs, special compliance costs, some nucleic acid solutions division ("NASD") site costs and certain other charges to the operating margin for each segment because management does not include this information in its measurement of the performance of the operating segments. Transformational initiatives include expenses associated with targeted cost reduction activities such as manufacturing transfers, site consolidations, legal entity and other business reorganizations, in-sourcing or outsourcing of activities.

The following tables reflect the results of our reportable segments under our management reporting system. The performance of each segment is measured based on several metrics, including segment income from operations. These results are used, in part, by the chief operating decision maker in evaluating the performance of, and in allocating resources to, each of the segments.

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The profitability of each of the segments is measured after excluding restructuring and asset impairment charges, transformational initiatives, investment gains and losses, interest income, interest expense, acquisition and integration costs, non-cash amortization and other items as noted in the reconciliations below.

	Life Sciences and Applied Markets	Diagnostics and Genomics	Agilent CrossLab	Total Segments
	(in millions)			
Year ended October 31, 2018:				
Total net revenue	\$ 2,270	\$ 943	\$ 1,701	\$ 4,914
Income from operations	\$ 547	\$ 178	\$ 397	\$ 1,122
Depreciation expense	\$ 38	\$ 33	\$ 31	\$ 102
Share-based compensation expense	\$ 33	\$ 14	\$ 24	\$ 71
Year ended October 31, 2017:				
Total net revenue	\$ 2,081	\$ 860	\$ 1,531	\$ 4,472
Income from operations	\$ 468	\$ 168	\$ 338	\$ 974
Depreciation expense	\$ 35	\$ 30	\$ 29	\$ 94
Share-based compensation expense	\$ 30	\$ 10	\$ 21	\$ 61
Year ended October 31, 2016:				
Total net revenue	\$ 1,992	\$ 790	\$ 1,420	\$ 4,202
Income from operations	\$ 412	\$ 131	\$ 316	\$ 859
Depreciation expense	\$ 36	\$ 31	\$ 28	\$ 95
Share-based compensation expense	\$ 29	\$ 10	\$ 21	\$ 60

The following table reconciles reportable segments' income from operations to Agilent's total enterprise income before taxes:

	Years Ended October 31,		
	2018	2017	2016
	(in millions)		
Total reportable segments' income from operations	\$ 1,122	\$ 974	\$ 859
Amortization of intangible assets related to business combinations	(105)	(117)	(152)
Acquisition and integration costs	(23)	(30)	(41)
Transformational initiatives	(25)	(12)	(38)
Asset Impairments	(21)	—	(4)
Business exit and divestiture costs (primarily our NMR business)	(9)	—	(11)
Impairment of loans	—	—	(7)
NASD site costs	(8)	—	—
Pension curtailment gain	—	—	15
Pension settlement gain	5	32	1
Special compliance costs	(4)	—	—
Other	(4)	(6)	(7)
Interest Income	38	22	11
Interest Expense	(75)	(79)	(72)
Other income (expense), net	55	19	(10)
Income before taxes, as reported	<u>\$ 946</u>	<u>\$ 803</u>	<u>\$ 544</u>

Major Customers. No customer represented 10 percent or more of our total net revenue in 2018, 2017 or 2016.

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The following table reflects segment assets and capital expenditures under our management reporting system. Segment assets include allocations of corporate assets, goodwill, net other intangibles and other assets. Unallocated assets primarily consist of cash, cash equivalents, the valuation allowance relating to deferred tax assets and other assets.

	Life Sciences and Applied Markets	Diagnostics and Genomics	Agilent CrossLab	Total Segments
(in millions)				
As of October 31, 2018:				
Assets	\$ 1,744	\$ 2,679	\$ 1,267	\$ 5,690
Capital expenditures	\$ 47	\$ 92	\$ 38	\$ 177
As of October 31, 2017:				
Assets	\$ 1,681	\$ 2,191	\$ 1,138	\$ 5,010
Capital expenditures	\$ 39	\$ 111	\$ 26	\$ 176

The following table reconciles segment assets to Agilent's total assets:

	October 31,	
	2018	2017
(in millions)		
Total reportable segments' assets	\$ 5,690	\$ 5,010
Cash, cash equivalents	2,247	2,678
Prepaid expenses	80	92
Investments	68	138
Long-term and other receivables	102	105
Other	354	403
Total assets	\$ 8,541	\$ 8,426

The other category primarily includes deferred tax assets and overfunded pension assets which are not allocated to the segments.

The following table represents total revenue by product category:

	Years Ended October 31,		
	2018	2017	2016
(in millions)			
Instrumentation	\$ 2,032	\$ 1,858	\$ 1,790
Analytical lab services	1,083	991	910
Analytical lab consumables	618	540	510
Diagnostics and genomics solutions	943	860	790
Informatics and other	238	223	202
Total	\$ 4,914	\$ 4,472	\$ 4,202

The following table presents summarized information for net revenue by geographic region. Revenues from external customers are generally attributed to countries based upon the customer's location.

	United States	China ⁽¹⁾	Rest of the World	Total
(in millions)				
Net revenue:				
Year ended October 31, 2018	\$ 1,414	\$ 1,015	\$ 2,485	\$ 4,914
Year ended October 31, 2017	\$ 1,314	\$ 900	\$ 2,258	\$ 4,472
Year ended October 31, 2016	\$ 1,251	\$ 839	\$ 2,112	\$ 4,202

1. China also includes Hong Kong net revenue.

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The following table presents summarized information for long-lived assets by geographic region. Long lived assets consist of property, plant, and equipment, long-term receivables and other long-term assets excluding intangible assets. The rest of the world primarily consists of Asia and the rest of Europe.

	United States	Germany	Rest of the World	Total
	(in millions)			
Long-lived assets:				
October 31, 2018	\$ 565	\$ 117	\$ 362	\$ 1,044
October 31, 2017	\$ 556	\$ 118	\$ 358	\$ 1,032

19. SUBSEQUENT EVENTS

On November 14, 2018, we acquired 100 percent of the stock of ACEA Biosciences Inc. (ACEA), a developer of cell analysis tools, for approximately \$250 million in cash. The financial results of ACEA will be included within our financial results from the date of the close. Due to the timing of the completion of the acquisition, our valuation for the tangible and intangible assets are not yet complete.

On December 20, 2018, we received the Letters of Award from Singapore Authorities extending the company's tax incentives in Singapore through December 30, 2027. These incentives, coupled with application of the new accounting rules for income tax consequences of intra-entity transfer of assets as adopted on November 1, 2018, are expected to result in approximately \$265 million benefit to our tax expense in the first quarter of fiscal 2019.

QUARTERLY SUMMARY

(Unaudited)

	Three Months Ended			
	January 31,	April 30,	July 31,	October 31,
(in millions, except per share data)				
2018				
Net revenue	\$ 1,211	\$ 1,206	\$ 1,203	\$ 1,294
Gross profit	673	644	661	709
Income from operations	239	215	225	249
Net income (loss)	(320)	205	236	195
Net income (loss) per share — Basic	\$ (0.99)	\$ 0.64	\$ 0.74	\$ 0.61
Net income (loss) per share — Diluted	\$ (0.99)	\$ 0.63	\$ 0.73	\$ 0.61
Weighted average shares used in computing net income per share:				
Basic	323	322	320	319
Diluted	323	326	324	322
Cash dividends per common share	\$ 0.149	\$ 0.149	\$ 0.149	\$ 0.149
2017				
Net revenue	\$ 1,067	\$ 1,102	\$ 1,114	\$ 1,189
Gross profit	574	592	596	647
Income from operations	206	201	201	233
Net income	168	164	175	177
Net income per share — Basic	\$ 0.52	\$ 0.51	\$ 0.55	\$ 0.55
Net income per share — Diluted	\$ 0.52	\$ 0.50	\$ 0.54	\$ 0.54
Weighted average shares used in computing net income per share:				
Basic	322	321	321	322
Diluted	326	325	326	326
Cash dividends per common share	\$ 0.132	\$ 0.132	\$ 0.132	\$ 0.132

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our management has evaluated, under the supervision and with the participation of our Chief Executive Officer and Chief Financial Officer, the effectiveness of our disclosure controls and procedures as of October 31, 2018, pursuant to and as required by Rule 13a-15(b) under the Securities Exchange Act of 1934 ("Exchange Act"). Based on that evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that, as of October 31, 2018, the company's disclosure controls and procedures, as defined by Rule 13a-15(e) under the Exchange Act, were effective and designed to ensure that (i) information required to be disclosed in the company's reports filed under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and (ii) information is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosures.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rule 13a-15(f). Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we assessed the effectiveness of our internal control over financial reporting based on the framework in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO"). As a result of that assessment, management concluded that our internal control over financial reporting was effective as of October 31, 2018 based on criteria in *Internal Control - Integrated Framework* (2013) issued by the COSO.

The effectiveness of our internal control over financial reporting as of October 31, 2018 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which appears in Item 8 of this Annual Report on Form 10-K.

Changes in Internal Control Over Financial Reporting

There were no changes in our internal control over financial reporting that occurred during Agilent's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

None.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

Information regarding our directors appears under "Proposal No. 1 - Election of Directors" in our Proxy Statement for the Annual Meeting of Stockholders ("Proxy Statement"), to be held March 20, 2019. That portion of the Proxy Statement is incorporated by reference into this report. Information regarding our executive officers appears in Item 1 of this report under "Executive Officers of the Registrant." Information regarding our Audit and Finance Committee and our Audit and Finance Committee's financial expert appears under "Audit and Finance Committee Report" and "Corporate Governance" in our Proxy Statement. That portion of the Proxy Statement is incorporated by reference into this report.

There were no material changes to the procedures by which security holders may recommend nominees to our Board of Directors. Information regarding our code of ethics (the company's Standards of Business Conduct) applicable to our principal executive officer, our principal financial officer, our controller and other senior financial officers appears in Item 1 of this report under "Investor Information." We will post amendments to or waivers from a provision of the Standards of Business Conduct with respect to those persons on our website at www.investor.agilent.com.

Compliance with Section 16(a) of the Exchange Act

Information about compliance with Section 16(a) of the Exchange Act appears under “Section 16(a) Beneficial Ownership Reporting Compliance” in the Proxy Statement. That portion of the Proxy Statement is incorporated by reference into this report.

Item 11. Executive Compensation

Information about compensation of our named executive officers appears under “Executive Compensation” in the Proxy Statement. Information about compensation of our directors appears under “Compensation of Non-Employee Directors” and “Compensation Committee Report” in the Proxy Statement. Those portions of the Proxy Statement are incorporated by reference into this report.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

Information about security ownership of certain beneficial owners and management appears under "Beneficial Ownership" in the Proxy Statement. That portion of the Proxy Statement is incorporated by reference into this report.

EQUITY COMPENSATION PLAN INFORMATION

The following table summarizes information about our equity compensation plans as of October 31, 2018. All outstanding awards relate to our common stock.

Plan Category	Number of Securities to be Issued upon Exercise of Outstanding Options, Warrants and Rights	Weighted-average Exercise Price of Outstanding Options, Warrants and Rights	Number of Securities Remaining Available for Future Issuance under Equity Compensation Plans (Excluding Securities Reflected in Column (a))
	(a)	(b)	(c)
Equity compensation plans approved by security holders (1)(2)(3)	5,178,290	\$ 35	33,095,375
Equity compensation plans not approved by security holders	—	—	—
Total	5,178,290	\$ 35	33,095,375

- (1) The number of securities remaining available for future issuance in column (c) includes 26,937,115 shares of common stock authorized and available for issuance under the Agilent Technologies, Inc. Employee Stock Purchase Plan ("423(b) Plan"). The number of shares authorized for issuance under the 423(b) Plan is subject to an automatic annual increase of the lesser of one percent of the outstanding common stock of Agilent or an amount determined by the Compensation Committee of our Board of Directors. Under the terms of the 423(b) Plan, in no event shall the aggregate number of shares issued under the Plan exceed 75 million shares.
- (2) We issue securities under our equity compensation plans in forms other than options, warrants or rights. On November 15, 2017 and March 21, 2018, the Board and the stockholders, respectively, approved the Agilent Technologies, Inc. 2018 Stock Plan (the "2018 Plan"), which was an amendment and restatement of the Company's 2009 Stock Plan, approved by the Board and the stockholders, respectively, on November 19, 2008 and March 11, 2009. The 2018 Plan provides for awards of stock-based incentive compensation to our employees (including officers), directors and consultants. The 2018 Plan provides for the grant of awards in the form of stock options, stock appreciation rights, restricted stock, restricted stock units, performance shares and performance units with performance-based conditions to vesting or exercisability, and cash awards. The 2018 Plan has a term of ten years.
- (3) We issue securities under our equity compensation plans in forms which do not require a payment by the recipient to us at the time of exercise or vesting, including restricted stock, restricted stock units and performance units. Accordingly, the weighted-average exercise price in column (b) does not take these awards into account.

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Item 13. Certain Relationships and Related Transactions, and Director Independence

Information about certain relationships and related transactions appears under "Related Person Transactions Policy and Procedures" in the Proxy Statement. Information about director independence appears under the heading "Corporate Governance — Director Independence" in the Proxy Statement. Each of those portions of the Proxy Statement is incorporated by reference into this report.

Item 14. Principal Accounting Fees and Services

Information about principal accountant fees and services as well as related pre-approval policies appears under "Fees Paid to PricewaterhouseCoopers LLP" and "Policy on Preapproval of Audit and Permissible Non-Audit Services of Independent Registered Public Accounting Firm" in the Proxy Statement. Those portions of the Proxy Statement are incorporated by reference into this report.

PART IV

Item 15. Exhibits, Financial Statement Schedules

(a) The following documents are filed as part of this report:

1. **Financial Statements.**

See Index to Consolidated Financial Statements under Item 8 on Page 50 of this report.

2. **Financial Statement Schedule.**

The following additional financial statement schedule should be considered in conjunction with our consolidated financial statements. All other schedules have been omitted because the required information is either not applicable or not sufficiently material to require submission of the schedule:

SCHEDULE II

**SCHEDULE II
VALUATION AND QUALIFYING ACCOUNTS**

Column A	Column B	Column C	Column D	Column E
Description	Balance at Beginning of Period	Additions Charged to Expenses or Other Accounts*	Deductions Credited to Expenses or Other Accounts**	Balance at End of Period
(in millions)				
2018				
Tax valuation allowance	\$ 138	\$ 4	\$ (7)	\$ 135
2017				
Tax valuation allowance	\$ 129	\$ 14	\$ (5)	\$ 138
2016				
Tax valuation allowance	\$ 131	\$ 22	\$ (24)	\$ 129

* Additions include current year additions charged to expenses and current year build due to increases in net deferred tax assets, return to provision true-ups, other adjustments and OCI impact to deferred taxes.

** Deductions include current year releases credited to expenses and current year reductions due to decreases in net deferred tax assets, return to provision true-ups, other adjustments and OCI impact to deferred taxes.

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3. **Exhibits.**

Exhibits are incorporated herein by reference or are filed with this report as indicated below (numbered in accordance with Item 601 of Regulation S-K):

Exhibit Number	Description	Incorporation by Reference		
		Form	Date	Exhibit Number Filed Herewith
2.1	Separation and Distribution Agreement, dated August 1, 2014, by and between Agilent Technologies, Inc. and Keysight Technologies, Inc. (pursuant to Item 601(b)(2) of Regulation S-K, schedules to the Separation and Distribution Agreement have been omitted; they will be supplementally provided to the SEC upon request)	8-K	8/5/2014	2.1
3.1	Amended and Restated Certificate of Incorporation.	S-1	8/16/1999	3.1
3.2	Amended and Restated Bylaws.	8-K	11/20/2012	3.1
4.1	Registration Rights Agreement between Agilent Technologies, Inc. and Credit Suisse First Boston Corporation, J.P. Morgan Securities, Inc. and Salomon Smith Barney, Inc. dated November 27, 2001.	8-K	11/27/2001	99.3
4.2	Indenture, dated October 24, 2007, between Agilent Technologies, Inc. and the trustee for the debt securities.	S-3ASR	10/24/2007	4.01
4.3	Fifth Supplemental Indenture, dated as of July 20, 2010, between the Company and U.S. Bank National Association and Form of Global Note for the Company's 5.00% Senior Notes due 2020.	8-K	7/20/2010	4.02
4.4	Sixth Supplemental Indenture, dated as of September 13, 2012, between the Company and U.S. Bank National Association	8-K	9/13/2012	4.01
4.5	Seventh Supplemental Indenture, dated as of June 21, 2013, between the Company and U.S. Bank National Association and Form of Global Note for the Company's 3.875% Senior Notes due 2023.	8-K	6/21/2013	4.01
4.6	Eighth Supplemental Indenture, dated as of September 22, 2016, between the Company and U.S. Bank National Association and Form of Global Note for the Company's 3.050% Senior Note due 2026	8-K	9/22/2016	4.01
10.1	Agilent Technologies, Inc. 1999 Stock Plan (Amendment and Restatement Effective November 14, 2006).*	10-K	12/22/2006	10.8
10.2	Form of Award Agreement (U.S.) for grants under the Agilent Technologies, Inc. 1999 Stock Plan.*	8-K	11/12/2004	10.1
10.3	Form of Award Agreement (Non-U.S.) for grants under the Agilent Technologies, Inc. 1999 Stock Plan.*	8-K	11/12/2004	10.2
10.4	Agilent Technologies, Inc. Employee Stock Purchase Plan (Amended and Restated, effective November 1, 2008).*	10-Q	9/5/2008	10.1
10.5	Agilent Technologies, Inc. 2009 Stock Plan.*	DEF14A	1/27/2009	Appendix A
10.6	Form of Stock Option Award Agreement under the 2009 Stock Plan for U.S. Employees (for awards made after October 31, 2010).*	10-K	12/20/2010	10.17
10.7	Form of Stock Option Award Agreement under the 2009 Stock Plan for U.S. Employees.*	10-K	12/21/2009	10.31

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Exhibit Number	Description	Incorporation by Reference			
		Form	Date	Exhibit Number	Filed Herewith
10.8	Form of Stock Option Award Agreement under the 2009 Stock Plan for non-U.S. Employees (for awards made after October 31, 2010).*	10-K	12/20/2010	10.19	
10.9	Form of Stock Option Award Agreement under the 2009 Stock Plan for non-U.S. Employees.*	10-K	12/21/2009	10.32	
10.10	Form of Stock Award Agreement for Standard Awards granted to Employees (for awards made after October 31, 2010).*	10-K	12/20/2010	10.21	
10.11	Form of Stock Award Agreement under the 2009 Stock Plan for Standard Awards granted to Employees (for awards made after November 17, 2015).*	10-K	12/21/2015	10.26	
10.12	Form of Stock Award Agreement under the 2009 Stock Plan for Long-Term Performance Program Awards (for awards made after November 17, 2015).*	10-K	12/21/2015	10.28	
10.13	Form of Stock Award Agreement under the 2009 Stock Plan for New Executives (for awards made after November 17, 2015).*	10-K	12/21/2015	10.29	
10.14	Agilent Technologies, Inc. 2018 Stock Plan.*	DEF14A	2/8/2018	Appendix B	
10.15	Form of Stock Award Agreement under the 2018 Stock Plan for Standard Awards granted to Employees.*	10-Q	5/31/2018	10.1	
10.16	Form of Stock Award Agreement under the 2018 Stock Plan for Long-Term Performance Program Awards.*	10-Q	5/31/2018	10.2	
10.17	Form of Stock Award Agreement under the 2018 Plan for Standard Awards granted to Employees (for awards made after November 13, 2018).*				X
10.18	Form of Stock Award Agreement under the 2018 Stock Plan for Long-Term Performance Program Awards (for awards made after November 13, 2018).*				X
10.19	Agilent Technologies, Inc. Supplemental Benefit Retirement Plan (Amended and Restated Effective May 20, 2014).*	10-K	12/21/2017	10.17	
10.20	Agilent Technologies, Inc. Long-Term Performance Program (Amended and Restated through November 1, 2005).*	10-Q	3/9/2006	10.63	
10.21	Agilent Technologies, Inc. 2005 Deferred Compensation Plan for Non-Employee Directors (Amended and Restated Effective November 18, 2009).*	10-K	12/21/2009	10.39	
10.22	Agilent Technologies, Inc. 2005 Deferred Compensation Plan (Amended and Restated Effective May 20, 2014).*	10-K	12/21/2017	10.20	
10.23	Agilent Technologies, Inc. 2010 Performance-Based Compensation Plan for Covered Employees. (as adopted on November 19, 2014)	DEF14A	2/6/2015	Annex A	
10.24	Form of Amended and Restated Indemnification Agreement between Agilent Technologies, Inc. and Directors of the Company, Section 16 Officers and Board-elected Officers of the Company.*	8-K	4/10/2008	10.1	
10.25	Form of Tier I Change of Control Severance Agreement between Agilent Technologies, Inc. and the Chief Executive Officer.*	10-K	12/22/2014	10.35	

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Exhibit Number	Description	Incorporation by Reference			
		Form	Date	Exhibit Number	Filed Herewith
10.26	Form of Amended and Restated Change of Control Severance Agreement between Agilent Technologies, Inc. and Section 16 Officers (other than the Company's Chief Executive Officer).*	8-K	4/10/2008	10.3	
10.27	Form of Tier II Change of Control Severance Agreement between Agilent Technologies, Inc. and Section 16 Officers (other than the Company's Chief Executive Officer)*	10-K	12/22/2014	10.37	
10.28	Form of New Executive Officer Change of Control Severance Agreement between Agilent Technologies, Inc. and specified executives of the Company (for executives hired, elected or promoted after July 14, 2009).*	10-K	12/21/2009	10.50	
10.29	Form of Tier III Change of Control Severance Agreement between Agilent Technologies, Inc. and specified executives of the Company*	10-K	12/22/2014	10.39	
10.30	Tax Matters Agreement, dated August 1, 2014, by and between Agilent Technologies, Inc. and Keysight Technologies, Inc.	8-K	8/5/2014	10.1	
10.31	Employee Matters Agreement, dated August 1, 2014, by and between Agilent Technologies, Inc. and Keysight Technologies, Inc.	8-K	8/5/2014	10.2	
10.32	Intellectual Property Matters Agreement, dated August 1, 2014, by and between Agilent Technologies, Inc. and Keysight Technologies, Inc.	8-K	8/5/2014	10.3	
10.33	Trademark License Agreement, dated August 1, 2014, by and between Agilent Technologies, Inc. and Keysight Technologies, Inc.	8-K	8/5/2014	10.4	
10.34	Real Estate Matters Agreement, dated August 1, 2014, by and between Agilent Technologies, Inc. and Keysight Technologies, Inc.	8-K	8/5/2014	10.5	
10.35	Credit Agreement, dated September 15, 2014, by and among the Company, the Lenders party thereto and BNP Paribas, as Administrative Agent.	8-K	9/17/2014	10.2	
10.36	Letter Agreement dated as of June 9, 2015 by and among the Company, BNP Paribas, as Administrative Agent under the Credit Agreement and certain banks	8-K	6/10/2015	10.1	
10.37	Amendment No. 1 to Credit Agreement, dated July 14, 2017, by and among the Company, the Lenders party thereto and BNP Paribas, as Administrative Agent	8-K	7/17/2017	10.1	
10.38	Letter of Terms and Conditions International Long Term Assignment, by and among Jacob Thaysen and the Company*	10-K	12/22/2014	10.62	
10.39	Letter of Terms and Conditions Localization Program by and among Jacob Thaysen and the Company *	10-K	12/21/2015	10.70	
10.40	Letter of Terms and Conditions of U.S. Indefinite Relocation and U.S. Domestic Relocation Agreement, each by and among Michael R. McMullen and the Company*	10-Q	3/8/2016	10.1	
10.41	Letter of Terms and Conditions of U.S. Indefinite Relocation and U.S. Domestic Relocation Agreement, each by and among Robert McMahon and the Company*				X

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Exhibit Number	Description	Incorporation by Reference		Exhibit Number	Filed Herewith
		Form	Date		
10.42	Agilent Technologies, Inc. Excess Benefit Retirement Plan (Amended and Restated Effective May 20, 2014)*	10-K	12/21/2017	10.40	
21.1	Significant subsidiaries of Agilent Technologies, Inc. as of October 31, 2018.				X
23.1	Consent of Independent Registered Public Accounting Firm.				X
24.1	Powers of Attorney. Contained in the signature page of this Annual Report on Form 10-K.				X
31.1	Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
31.2	Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
32.1	Certification of Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
32.2	Certification of Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
101.INS	XBRL Instance Document.				X
101.SCH	XBRL Taxonomy Extension Schema Document.				X
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.				X
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.				X
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.				X
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.				X

* Indicates management contract or compensatory plan, contract or arrangement.

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Michael Tang and P. Diana Chiu, or either of them, his or her attorneys-in-fact, for such person in any and all capacities, to sign any amendments to this report and to file the same, with exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that any of said attorneys-in-fact, or substitute or substitutes, may do or cause to be done by virtue hereof. Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ MICHAEL R. MCMULLEN</u> Michael R. McMullen	Director, President and Chief Executive Officer (Principal Executive Officer)	December 20, 2018
<u>/s/ ROBERT W. MCMAHON</u> Robert W. McMahon	Senior Vice President and Chief Financial Officer (Principal Financial Officer)	December 20, 2018
<u>/s/ RODNEY GONSALVES</u> Rodney Gonsalves	Vice President, Corporate Controllershship (Principal Accounting Officer)	December 20, 2018
<u>/s/ KOH BOON HWEE</u> Koh Boon Hwee	Chairman of the Board of Directors	December 20, 2018
<u>/s/ HANS E. BISHOP</u> Hans E. Bishop	Director	December 20, 2018
<u>/s/ PAUL N. CLARK</u> Paul N. Clark	Director	December 20, 2018
<u>/s/ HEIDI KUNZ</u> Heidi Kunz	Director	December 20, 2018
<u>/s/ DANIEL K. PODOLSKY, M.D.</u> Daniel K. Podolsky, M.D.	Director	December 20, 2018
<u>/s/ SUE H. RATAJ</u> Sue H. Rataj	Director	December 20, 2018
<u>/s/ GEORGE A. SCANGOS, Ph D</u> George A. Scangos, Ph D.	Director	December 20, 2018
<u>/s/ DOW R. WILSON</u> Dow R. Wilson	Director	December 20, 2018
<u>/s/ TADATAKA YAMADA, M.D.</u> Tadataka Yamada, M.D.	Director	December 20, 2018

AGILENT TECHNOLOGIES, INC.

**2018 Stock Plan
Stock Award Agreement**

Section 1. Grant of Stock Award. This Stock Award Agreement, including any additional terms for your country in the Country Specific Addendum attached hereto (collectively, this “Award Agreement”), dated as of the grant date (the “Grant Date”) indicated in your account maintained by the company providing administrative services (the “External Administrator”) in connection with the Agilent Technologies, Inc. 2018 Stock Plan (the “Plan”), is entered into between Agilent Technologies, Inc. (the “Company”) and you as an individual (the “Awardee”) who has been granted a Stock Award of Restricted Stock Units (the “Stock Award”) pursuant to the Plan. The Stock Award represents the right to receive the number of Shares indicated in the Awardee’s External Administrator account subject to the fulfillment of the conditions set forth below and pursuant to and subject to the terms and conditions set forth in the Plan. The Stock Award is an unfunded and unsecured promise by the Company to deliver Shares in the future. Capitalized terms used and not otherwise defined herein are used with the same meanings as in the Plan.

Section 2. Vesting Period. So long as the Awardee remains an Awardee Eligible to Vest and has not had a termination of his or her Service, the Stock Award shall vest in accordance with the vesting schedule set forth on the notice accompanying this Award Agreement (the “Notice”) which shall be deemed to constitute a part of this Award Agreement.

Section 3. Nontransferability of Stock Award. The Stock Award shall not be transferable by the Awardee otherwise than by will or by the laws of descent and distribution. The terms of the Stock Award shall be binding on the executors, administrators, heirs and successors of the Awardee.

Section 4. Termination of Employment or Service.

(a) Except as set forth in this Section 4 or another written agreement between the Awardee and the Company, any unvested portion of the Stock Award shall be forfeited immediately when the Awardee has had a termination of Service or otherwise ceases to be an Awardee Eligible to Vest. Except as the Committee may otherwise determine, termination of the Awardee’s Service for any reason shall be determined without regard to whether the Awardee continues thereafter to receive any compensatory payments therefrom or is paid salary thereby in lieu of notice of termination.

(b) Notwithstanding any provision in the Plan to the contrary, if an Awardee dies while an Employee, the Stock Award shall immediately vest in full and be settled in accordance with Section 5 below. The vested Stock Award shall be delivered to the executor or administrator of the Awardee’s estate or, if none, by the person(s) entitled to receive the vested Stock Award under the Awardee’s will or the laws of descent or distribution.

(c) Notwithstanding any provision in the Plan to the contrary, if the Awardee terminates Service due to (i) total and permanent disability (a “Disability Termination”), or (ii) an involuntary termination as part of a reduction in force under the Company’s Workforce Management Program or divestiture, the Stock Award shall vest in full and be settled in accordance with Section 5 below.

(d) Notwithstanding any provision in the Plan to the contrary, if the Awardee voluntarily terminates Service on or after such time as the sum of the Awardee’s age and years of Service equals or exceeds 75 years and the Awardee has attained the minimum age of 60, any unvested portion of the Stock Award will be fully nonforfeitable and be settled upon the earliest to occur of (i) the normal vesting dates set forth in Section 2 above, (ii) the Awardee’s death and (iii) a Change of Control, in accordance with Section 5 below. Notwithstanding the foregoing, if the Company receives an opinion of counsel that there has been a legal judgment and/or legal development in the Awardee’s jurisdiction that would likely result in the favorable treatment applicable to the Stock Award pursuant to this Section 4(d) being deemed unlawful and/or discriminatory, then the Company will not apply the favorable treatment at the time of the Awardee’s termination of Service, and the Stock Award shall be forfeited immediately upon Awardee’s termination of Service.

(e) In the event of a Change of Control, the Stock Award shall vest in full immediately prior to the closing of such Change of Control. The foregoing shall not apply where the Stock Award is assumed, converted or replaced in full by the successor corporation or a parent or subsidiary of the successor; provided, however, that in the event of a Change of Control in which one or more of the successor or a parent or subsidiary of the successor has issued publicly traded equity securities, the assumption, conversion, replacement or continuation shall be made by an entity with publicly traded securities and shall provide that the holders of such assumed, converted, replaced or continued Stock Awards shall be able to acquire such publicly traded securities.

Section 5. Settlement of Stock Award. Notwithstanding anything to the contrary set forth in any other agreement, the Stock Award, but only to the extent vested, shall be automatically settled in Shares on the earliest to occur of the following (each, a “Settlement Date”): (i) the normal vesting dates set forth in Section 2 above, (ii) the Awardee’s death, (iii) the Awardee’s Disability Termination, date of termination as a result of participation in the Company’s Workforce Management Program, or involuntary termination or good reason termination entitling the Awardee to full vesting of the Stock Award under a change of control agreement or plan in effect on the Grant Date, and (iv) a Change of Control. Such Shares shall be issued to the Awardee on or as soon as practicable (and in all events within 74 days) after the applicable Settlement Date.

Section 6. Restrictions on Issuance of Shares. The Company shall not be obligated to issue any Shares pursuant to the Stock Award unless the Shares are at that time effectively registered or exempt from registration under the U.S. Securities Act of 1933, as amended, and, as applicable, local laws. Notwithstanding anything to the contrary herein, the Company shall not be obligated to issue any Shares pursuant to the Stock Award if such issuance violates or is not in compliance with any Applicable Laws.

Section 7. Responsibility for Taxes.

(a) The Awardee acknowledges that, regardless of any action the Company or, if different, the Awardee's employer (the "Employer") takes with respect to any or all income tax, social insurance, payroll tax, fringe benefits tax, payment on account or other tax-related withholding relating to the Awardee's participation in the Plan ("Tax-Related Items"), the ultimate liability for all Tax-Related Items legally due by the Awardee is and remains the Awardee's responsibility and may exceed the amount, if any, actually withheld by the Company or the Employer. The Awardee further acknowledges that the Company and/or the Employer (1) make no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Stock Award, including the grant, vesting (including on account of the Awardee's termination of Service as described in Section 4(d)) and settlement of the Stock Award, the subsequent sale of Shares acquired pursuant to the Stock Award and the receipt of any dividends or other distributions, if any; and (2) do not commit to structure the terms of the grant or any aspect of the Stock Award to reduce or eliminate the Awardee's liability for Tax-Related Items. Further, if the Awardee is subject to Tax-Related Items in more than one jurisdiction, the Awardee acknowledges that the Company and/or the Employer (or former employer, as applicable) may be required to withhold or account for Tax-Related Items in more than one jurisdiction.

(b) The Awardee authorizes the Company and/or the Employer to, in the sole discretion of the Company and/or the Employer, withhold all applicable Tax-Related Items legally payable by the Awardee from the Awardee's wages or other cash compensation paid to the Awardee by the Company and/or the Employer, within legal limits, or from proceeds of the sale of Shares. Alternatively, or in addition, if permissible under local law, the Company and/or the Employer may in its sole discretion (1) sell or arrange for the sale of Shares that the Awardee acquires pursuant to the Stock Award to meet the withholding obligation for Tax-Related Items, and/or (2) withhold in Shares otherwise payable pursuant to the Stock Award, provided that the Company and/or the Employer only withholds the amount of Shares necessary to satisfy not more than the maximum withholding amount. If the obligation for Tax-Related Items is satisfied by withholding a number of Shares as described herein, for tax purposes, the Awardee is deemed to have been issued the full number of Shares subject to the vested/settled Stock Awards, notwithstanding that a number of the Shares are held back solely for the purpose of paying the Tax-Related Items.

(c) Finally, the Awardee shall pay to the Company or the Employer any amount of Tax-Related Items that the Company or the Employer may be required to withhold as a result of the Awardee's participation in the Plan or the Awardee's acquisition of Shares pursuant to the Stock Award that is not satisfied by the means previously described. The Company may refuse to deliver the Shares if the Awardee fails to comply with the Awardee's obligations in connection with the Tax-Related Items as described in this section.

Section 8. Holding Period for Officers and Executives. Notwithstanding anything in the Plan or this Award Agreement to the contrary, if the Awardee is an officer or executive of the Company (as defined in the Company's human resources system of record) on the Grant Date, any Shares that are issued to the Awardee hereunder may not be sold, assigned, conveyed, gifted, pledged, hypothecated or otherwise transferred in any manner, other than by will or the laws of descent or distribution, until the first anniversary of the applicable Settlement Date (or, if earlier, the date of the Awardee's death or Disability Termination or a Change of Control).

Section 9. Adjustment. The number of Shares subject to the Stock Award and the price per share, if any, of such Shares may be adjusted by the Company from time to time pursuant to the Plan.

Section 10. Nature of the Award. By accepting the Stock Award, the Awardee acknowledges that:

- (a) the Plan is established voluntarily by the Company, it is discretionary in nature and it may be modified, amended, suspended or terminated by the Company at any time, unless otherwise provided in the Plan and this Award Agreement;
- (b) the grant of the Stock Award is extraordinary, voluntary and occasional and does not create any contractual or other right to receive future grants of Stock Awards, or benefits in lieu of Stock Awards, even if Stock Awards have been granted in the past;
- (c) all decisions with respect to future Stock Awards, if any, will be at the sole discretion of the Company;
- (d) participation in the Plan shall not create a right to further employment with the Employer and shall not interfere with the ability of the Employer to terminate the Awardee's employment relationship at any time;
- (e) participating in the Plan is voluntary;
- (f) the Stock Award, the Shares underlying the Stock Award and the income from and value of same, are extraordinary items that do not constitute recurring or on-going compensation of any kind for services of any kind rendered to the Company or the Employer, and which are outside the scope of the Awardee's employment contract, if any;
- (g) the Stock Award, the Shares underlying the Stock Award and the income from and the value of same, are not part of normal or expected compensation or salary for any purposes, including, but not limited to, calculating any severance, resignation, termination, redundancy, end of service payments, bonuses, long-service awards, pension or retirement benefits or similar payments and in no event should be considered as compensation for, or relating in any way to, past services to the Company or the Employer;
- (h) unless otherwise agreed with the Company in writing, the Stock Award, the Shares underlying the Stock Award and the income from and value of same, are not granted as consideration for, or in connection with, the Service the Awardee may provide as a director of an Affiliate or Subsidiary of the Company;
- (i) in the event the Awardee is not an employee of the Company, the Stock Award will not be interpreted to form an employment contract or relationship with the Company; and furthermore, the Stock Award will not be interpreted to form an employment contract with the Employer or any Subsidiary or Affiliate of the Company;
- (j) the future value of the underlying Shares is unknown, indeterminable and cannot be predicted with certainty, and the Company makes no representation regarding such

future value and is not responsible for any decrease in value or any foreign exchange fluctuations between the Awardee's local currency and the United States Dollar that may affect such value;

(k) if the Awardee accepts the Stock Award and obtains Shares, the value of those Shares acquired may increase or decrease in value;

(l) no claim or entitlement to compensation or damages shall arise from termination of the Stock Award or diminution in value of the Stock Award or Shares acquired under the Stock Award resulting from termination of the Awardee's employment by the Company or the Employer;

(m) by accepting the grant of the Stock Award through the methods described in Section 24 below, the Awardee and the Company agree that the Stock Award is granted under and governed by the terms and conditions of the Plan and this Award Agreement (including the Country-Specific Addendum), and the Awardee acknowledges that he or she agrees to accept as binding, conclusive and final all decisions or interpretations of the Company and/or the External Administrator regarding any questions relating to the Plan and this Award Agreement;

(n) this Award Agreement is between the Awardee and the Company, and that the Awardee's local employer is not a party to this Award Agreement;

(o) Applicable Laws (including any rules or regulations governing securities, foreign exchange, tax, labor or other matters) of the country in which the Awardee is residing or working at the time of grant or vesting of the Stock Award or the sale of Shares may subject the Awardee to additional procedural or regulatory requirements that the Awardee solely is responsible for and must independently fulfill in relation to ownership or sale of such Shares;

(p) the ownership of Shares or assets and the holding of a bank or brokerage account may subject the Awardee to reporting requirements imposed by tax, banking, and/or other authorities in the Awardee's country, that the Awardee solely is responsible for complying with such requirements, and that any cross-border cash remittance made to transfer of proceeds received upon the sale of Shares must be made through a locally authorized financial institution or registered foreign exchange agency and may require the Awardee to provide to such entity certain information regarding the transaction; and

(q) the Company reserves the right to impose other requirements or terms and conditions (which may be set forth in but are not limited to the Country-Specific Addendum hereto) on the Awardee's participation in the Plan, the Stock Award and any Shares acquired thereunder, to the extent the Company determines it is necessary or advisable for legal or administrative reasons.

Section 11. Data Privacy. *The Awardee explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of the Awardee's personal data as described in this document by and among, as applicable, the Company, the Employer and the External Administrator for the exclusive purpose of implementing, administering and managing the Awardee's participation in the Plan.*

The Awardee hereby understands that the Company and the Employer hold certain personal information about the Awardee, including, but not limited to, the Awardee's name, home address and telephone number, email address, date of birth, social insurance, passport or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, canceled, exercised, vested, unvested or outstanding in the Awardee's favor, for the purpose of implementing, administering and managing the Plan ("Data"). The Awardee hereby understands that Data may be transferred to any third parties (including the External Administrator) assisting in the implementation, administration and management of the Plan, that these recipients may be located in the Awardee's country or elsewhere, such as outside the European Economic Area, and that the recipient's country may have different data privacy laws and protections than the Awardee's country. All such transfers of Data will be in accordance with the Company's Privacy Policies and Guidelines. The Awardee hereby understands that the Awardee may request a list with the names and addresses of any potential recipients of the Data by contacting the Awardee's local human resources representative. The Awardee authorizes the recipients to receive, possess, use, retain and transfer the Data, in electronic or other form, for the purposes of implementing, administering and managing the Awardee's participation in the Plan, including any requisite transfer of such Data as may be required to a broker or other third party with whom the Awardee may elect to deposit any Shares acquired upon vesting of the Stock Award. The Awardee hereby understands that the Awardee may, at any time, view Data, request information about the storage and processing of Data and require any necessary amendments to Data. Further, the Awardee understands that he or she is providing the consents herein on a purely voluntary basis. If the Awardee does not consent, or if he or she later seeks to revoke his or her consent, his or her employment status or service with the Employer will not be affected by reason of his or her refusal to consent; the only consequence of refusing or withdrawing the Awardee's consent is that the Company would not be able to grant Stock Awards or other equity awards to the Awardee or administrator or maintain such awards. Therefore, the Awardee understands that refusing or withdrawing his or her consent may affect his or her ability to participate in the Plan. For more information on the consequences of the Awardee's refusal to consent or withdrawal of consent, the Awardee understands that he or she may contact his or her human resources representative responsible for the Awardee's country at the local or regional level.

Finally, upon request of the Company or the Employer, the Awardee agrees to provide an executed data privacy consent form (or any other agreements or consents that may be required by the Company and/or the Employer) that the Company and/or the Employer may deem necessary to obtain from the Awardee for the purpose of administering the Awardee's participation in the Plan in compliance with the data privacy laws in his or her country, either now or in the future. The Awardee understands and agrees that he or she will not be able to participate in the Plan if he or she fails to provide any such consent or agreement requested by the Company and/or the Employer.

Section 12. No Rights Until Issuance. The Awardee shall have no rights hereunder as a shareholder with respect to any Shares subject to the Stock Award until the date that Shares are issued to the Awardee. The Committee in its sole discretion may substitute a cash payment in lieu of Shares, such cash payment to be equal to the Fair Market Value of the Shares on the date that such Shares would have otherwise been issued under the terms of the Plan and this Award Agreement.

Section 13. Administrative Procedures. The Awardee agrees to follow the administrative procedures that may be established by the Company and/or its designated broker for participation in the Plan which may include a requirement that the Shares issued hereunder be held by the Company's designated broker until the Awardee disposes of such Shares. The Awardee further agrees that the Company may determine the actual method of withholding for Tax-Related Items as described in Section 7 above. The Awardee agrees to update the Company with respect to the Awardee's home address, contact information and any information necessary for the Company or one of its affiliates to process any required tax withholding or reporting related to the Stock Award.

Section 14. Governing Law and Venue. This Award Agreement shall be governed by and construed according to the laws of the State of Delaware without regard to its principles of conflicts of laws as provided in the Plan. Any proceeding arising out of or relating to this Award Agreement or the Plan may be brought only in the state or federal courts located in the Northern District of California where this grant is made and/or to be performed, and the parties to this Award Agreement consent to the exclusive jurisdiction of such courts.

Section 15. Amendment. The Stock Award may be amended as provided in the Plan.

Section 16. Language. By electing to accept this Award Agreement, the Awardee acknowledges that he or she is sufficiently proficient in English, or has consulted with an advisor who is sufficiently proficient in English so as to allow the Awardee to understand the terms and conditions of this Award Agreement. Further, if the Awardee has received this or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.

Section 17. Electronic Delivery and Acceptance. The Company may, in its sole discretion, decide to deliver any documents related to current or future participation in the Plan by electronic means. The Awardee hereby consents to receive such documents by electronic delivery and agrees to participate in the Plan through an on-line or electronic system established and maintained by the Company or a third party designated by the Company.

Section 18. Severability. The provisions of this Award Agreement are severable and if any one or more provisions are determined to be illegal or otherwise unenforceable, in whole or in part, the remaining provisions shall nevertheless be binding and enforceable.

Section 19. Recoupment. The Stock Award is subject to the terms of the Agilent Technologies Executive Compensation Recoupment Policy in the form approved by the Committee as of the Grant Date (the "Policy"), if and to the extent that the Policy by its terms applies to the Stock Award and the Awardee; and the terms of the Policy as of the Grant Date are incorporated by reference herein and made a part hereof.

Section 20. Section 409A of the Code.

(a) The Stock Award shall be administered, interpreted, and construed in a manner that is intended to avoid the imposition on the Awardee of any additional tax, penalty, or interest under Section 409A of the Code. The preceding provision, however, shall not be construed as a guarantee of any particular tax effect and the Company shall not be liable to the Awardee for any payment

made under the Stock Award that is determined to result in an additional tax, penalty, or interest under Section 409A of the Code, nor for reporting in good faith any payment made under the Stock Award as an amount includible in gross income under Section 409A of the Code.

(b) “Termination of employment,” “resignation,” or words of similar import, as used in the Stock Award means for purposes of payments under the Stock Award that are payments of deferred compensation subject to Section 409A of the Code as to which the payment event is such term or words, the Awardee’s “separation from service” as defined in Section 409A of the Code.

(c) To the extent any payment or settlement hereunder that is a payment of deferred compensation subject to Section 409A of the Code is contingent upon a “change in control,” such payment or settlement shall only occur if the event giving rise to the change in control would also constitute a change in ownership or effective control of the Company, or a change in the ownership of a substantial portion of the assets of the Company, within the meaning of Section 409A of the Code. The vesting of the Stock Award shall not be affected by the preceding sentence.

(d) If a payment obligation under the Stock Award arises on account of the Awardee’s separation from service while the Awardee is a “specified employee” (as defined in Section 409A of the Code), any payment of “deferred compensation” (as defined under Treasury Regulation Section 1.409A-1(b)(1), after giving effect to the exemptions in Treasury Regulation Sections 1.409A-1(b)(3) through (b)(12)) that is scheduled to be paid within six months after such separation from service shall accrue without interest and shall be paid within 15 days after the end of the six-month period beginning on the date of such separation from service or, if earlier, within 15 days after the Awardee’s death.

Section 21. Insider Trading / Market Abuse Laws. The Awardee may be subject to insider trading restrictions and/or market abuse laws based on the exchange on which the Shares are listed and in applicable jurisdictions including the United States and the Awardee’s country or his or her broker’s country, if different, which may affect the Awardee’s ability to accept, acquire, sell or otherwise dispose of Shares, rights to Shares (e.g., Stock Awards) or rights linked to the value of Shares (e.g., dividend equivalents) during such times as the Awardee is considered to have “inside information” regarding the Company (as defined by the laws in applicable jurisdictions). Local insider trading laws and regulations may prohibit the cancellation or amendment of orders the Awardee placed before he or she possessed inside information. Furthermore, the Awardee could be prohibited from (i) disclosing the inside information to any third party, which may include fellow employees and (ii) “tipping” third parties or causing them otherwise to buy or sell securities. Any restrictions under these laws or regulations are separate from and in addition to any restrictions that may be imposed under any applicable insider trading policy of the Company. The Awardee acknowledges that it is the Awardee’s responsibility to comply with any applicable restrictions and the Awardee should speak with his or her personal legal advisor on this matter.

Section 22. Foreign Asset/Account Reporting; Exchange Control. The Awardee’s country may have certain foreign asset and/or account reporting requirements and/or exchange controls which may affect the Awardee’s ability to acquire or hold Shares under the Plan or cash received from participating in the Plan (including from any dividends received or sale proceeds arising from the sale of Shares) in an account outside the Awardee’s country. The Awardee may be required to report such accounts, assets or transactions to the tax or other authorities in his or her

country. The Awardee also may be required to repatriate sale proceeds or other funds received as a result of Awardee's participation in the Plan to his or her country through a designated bank or broker and/or within a certain time after receipt. The Awardee acknowledges that it is his or her responsibility to comply with such regulations, and the Awardee should consult his or her personal legal advisor for any details.

Section 23. Entire Agreement. The Plan is incorporated herein by reference. The Plan, this Award Agreement and the Notice (including the Country-Specific Addendum attached hereto) constitute the entire agreement of the parties with respect to the subject matter hereof and supersede in their entirety all prior undertakings and agreements of the Company and the Awardee with respect to the subject matter hereof, and may not be modified adversely to the Awardee's interest except by means of a writing signed by the Company and the Awardee.

Section 24. Acceptance and Rejection. This Award Agreement is one of the documents governing the Stock Award, which the Awardee may accept or reject online through the External Administrator's website. If the Awardee has not rejected the Stock Award by the time of the first vesting event, the Awardee will be deemed to have accepted the Stock Award, and the Shares vested pursuant to the Stock Award will be issued and taxed accordingly.

Section 25. Country-Specific Addendum. Notwithstanding any provision herein, the Awardee's participation in the Plan shall be subject to any special terms and conditions as set forth in the Country-Specific Addendum for the Awardee's country of residence, if any. Moreover, if the Awardee relocates to one of the countries included in the Country-Specific Addendum, the special terms and conditions will apply to the Awardee, to the extent the Company determines that the application of such terms and conditions is necessary or advisable for legal or administrative reasons. The Country-Specific Addendum constitutes part of this Award Agreement.

AGILENT TECHNOLOGIES, INC.

By:

Mike McMullen
President and Chief Executive Officer

**COUNTRY-SPECIFIC ADDENDUM
ADDITIONAL TERMS AND CONDITIONS OF THE
AGILENT TECHNOLOGIES, INC. 2018 STOCK PLAN
STANDARD STOCK AWARD AGREEMENT
FOR NON-U.S. EMPLOYEES**

This Country-Specific Addendum includes additional terms and conditions that govern the Stock Award granted to the Awardee under the Plan if the Awardee resides in one of the countries listed herein. Certain capitalized terms used but not defined in this Country-Specific Addendum have the meanings set forth in the Plan and/or the Award Agreement.

This Country-Specific Addendum also includes information regarding exchange controls and certain other issues of which the Awardee should be aware with respect to the Awardee's participation in the Plan. The information is based on the securities, exchange control and other laws in effect in the respective countries as of March 2018. Such laws are often complex and change frequently. As a result, the Company strongly recommends that the Awardee not rely on the information in this Country-Specific Addendum as the only source of information relating to the consequences of the Awardee's participation in the Plan because the information may be out of date at the time that the Awardee vests in the Stock Award or sells Shares acquired under the Plan.

In addition, the information contained herein is general in nature and may not apply to the Awardee's particular situation, and the Company is not in a position to assure the Awardee of a particular result. Accordingly, the Awardee should seek appropriate professional advice as to how the relevant laws in the Awardee's country may apply to his or her situation.

Finally, if the Awardee is a citizen or resident of a country other than the one in which the Awardee is currently working, transfers employment and/or residency after the Stock Award is granted, or is considered a resident of another country for local law purposes, the notifications contained herein may not apply to him or her and the Company shall, in its discretion, determine to what extent the terms and conditions contained herein shall be applicable to the Awardee.

COUNTRY-SPECIFIC LANGUAGE

Below please find country specific language that applies to Awardees in the following countries: Australia, Brazil, Canada, China, Denmark, France, Hong Kong, Israel, Italy, Japan, Malaysia, Mexico, New Zealand, Russia, Singapore, South Korea, Spain, Switzerland, Taiwan, and the United Kingdom, with the exception of the Europe Data Privacy Notice which applies to Awardees in Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Spain, Sweden and the United Kingdom.

EUROPE DATA PRIVACY NOTICE

These provisions replace Section 11 of the Award Agreement for the following countries only: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Spain, Sweden and the United Kingdom.

This Notice details the personal data that Agilent Technologies Inc, (“**Company**”, “**we**”, “**us**” or “**our**”) receives about the Awardee, how we process it and the Awardee's rights and obligations in relation to the personal data collected in the context of this Award Agreement and the implementing, administering and managing of the Awardee’s participation in the Plan.

The Company is the data controller for the purposes of the General Data Protection Regulation (GDPR) and any relevant local legislation (the “**Data Protection Laws**”). The Company can be contacted at 5301 Stevens Creek Boulevard, Santa Clara, CA 95051, United States.

The Awardee may contact our Data Protection Officer for all data privacy inquiries and any questions or concerns in relation to this Notice at:

E-mail: data-protection.officer@agilent.com

Phone: +44 131 452 0725

Post: 5 Lochside Avenue, Edinburgh EH12 9DJ, United Kingdom.

What information does the Company collect about the Awardee?

The Company and as applicable, the Employer, and any Subsidiary or Affiliate, will collect the following personal data about the Awardee for the purpose of implementing, administering and managing the Awardee’s participation in the Plan, so that the Company can perform its contractual obligations related to the implementation, administration and management of the Plan:

- personal information such as: the Awardee’s name, residence address, date of birth, hire date, work email, work phone number, division code, location code, date of employment termination, and employee identification number;
- contact information such as: home address and telephone number; and
- financial information such as: any Shares or directorships held in the Company or any Subsidiary or Affiliate, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, canceled, exercised, vested, unvested or outstanding in the Awardee’s favor.

The Awardee also understands that providing the Company with all of the personal data listed above is necessary for the performance of the Plan and that the Awardee’s denial to provide such personal

data would make it impossible for the Company to perform its contractual obligations and may affect the Awardee's ability to participate in the Plan.

We receive information about the Awardee directly, as well as from other sources including the Awardee's Employer.

The Awardee's personal data will be retained by the Company in accordance with the time periods and in the format specified in the General Retention Schedule.

In the following circumstances, the Awardee's personal data may be retained for longer than the specified periods:

- as required by law or court order; and
- as needed to defend or pursue legal claims.

The Awardee understands that personal data processing related to the purposes specified above shall take place under non-automated conditions, that comply with the purposes for which personal data is collected and with confidentiality and security provisions as set forth by the Data Protection Laws.

Disclosure of the Awardee's Personal Data and Transfers Overseas

Disclosures and transfers within the Company

The personal data that we collect from the Awardee will be transferred to, and stored at/processed in the USA by the Company so that the Company can perform its contractual obligations related to the implementation, administration and management of the Plan.

Where personal data is received from the Awardee's Employer or transferred to other Agilent group companies, we rely on the Commission's model contracts for the transfer of personal data to third countries (i.e., the standard contractual clauses), pursuant to Decisions 2004/915/EC and 2010/87/EU. Please contact our Data Protection Officer should you wish to examine the intra-group standard data protection clauses entered into by the Company.

The Company takes all necessary security and legal precautions to ensure the safety and integrity of personal data that is transferred within its group.

Disclosures and transfers to third parties

The Awardee's personal data will, in certain circumstances, be disclosed to third parties for the purposes described above. The only third-party recipient of such personal data is Fidelity, the administrator of the Plan for the purposes of administering and managing the Awardee's participation in the Plan.

Where the Company is under an obligation to do so by law, it will disclose the Awardee's personal data to regulators, courts, the police or tax authorities, or in the course of litigation. In some cases,

in accordance with applicable law, it may not be possible to notify the Awardee in advance about the details of such disclosures. The Company will use all reasonable efforts to disclose the minimum personal data necessary in such cases.

The Awardee's rights in relation to their Personal Data held by the Company

The Awardee has certain rights in relation to their personal data that we hold. Some of these only apply in certain circumstances as set out in more detail below. We also set out how to exercise those rights. Please note that we will require the Awardee to verify their identity before we respond to any such requests, by providing us with two forms of identification: one from List A; and one from List B.

List A	List B
Valid Passport.	Recent utility bill showing data subject's current home address (no more than 3 months' old).
Valid Photo Driving Licence.	Recent Bank or Building Society Statement (no more than 3 months' old).

To exercise any of these rights, unless otherwise stated, please email data-protection.officer@agilent.com to receive the Data Subject Request Form which must be returned to the [Data Protection Officer](#). We must respond to a request by the Awardee to exercise those rights without undue delay and at least within one (1) month (although this may be extended by a further two (2) months in certain circumstances).

The Awardee has the following rights in relation to their personal data:

Access: to access the personal data held by the Company about the Awardee and certain information about how we use it and who we share it with – the Awardee's right of access can be exercised by filling out the form referenced above and submitting it to data-protection.officer@agilent.com;

Portability: in certain circumstances, to receive or ask us to provide their personal data to a third party in a structured, commonly used and machine-readable format, although we will not provide the Awardee with certain personal data if to so would interfere with another's individual's rights (e.g. where providing the personal data we hold about the Awardee would reveal information about another person) or where another exemption applies (we can only do so where it is technically feasible; we are not responsible for the security of the personal data or its processing once received by the third party);

Correction: to correct any personal data held about the Awardee that is inaccurate and have incomplete data completed (including by the provision of a supplementary statement). Where the Awardee requests correction, please explain in detail why the personal data we hold about the Awardee is inaccurate or incomplete so that we can assess whether a correction is required.

Please note that while we assess whether the personal data we hold about the Awardee is inaccurate or incomplete, the Awardee may exercise their right to restrict our processing of the applicable data as described below. Where we agree that the personal data is inaccurate or incomplete, we will try to tell any third party to whom we have disclosed the relevant data so that they can rectify the data, as well;

Please note that the Awardee can update and correct their personal data through the following self-service portals:

- the Meidas portal at <https://meidas.hr.agilent.com/>. Here the Awardee can update their personal information such as home and work addresses, names, birth dates, telephone numbers, email, and tax ID numbers.
- the Fidelity NetBenefits portal at <https://nb.fidelity.com/public/nb/default/home>. Here the Awardee can update their contribution withholding rates or request to withdraw from the ESPP.

Erasure: that we erase the personal data held about the Awardee in the following circumstances:

- the Awardee believes that it is no longer necessary for us to hold the personal data the we hold about the Awardee; or
- the Awardee believes the personal data the we hold about the Awardee is being unlawfully processed by us;

Also note that the Awardee may exercise their right to restrict our processing of the Awardee's personal data whilst we consider the Awardee's request. Please provide as much detail as possible on the reasons for the request to assist us in determining whether the Awardee has a valid basis for erasure. We will retain the personal data if there are valid grounds under law for us to do so (e.g., for the defence of legal claims or freedom of expression) but we will let you know if that is the case.

Restriction of Processing to Storage Only: to require us to stop processing the personal data we hold about the Awardee other than for storage purposes in certain circumstances. Please note, however, that if we stop processing their personal data, we may use it again if there are valid grounds under the Data Protection Laws for us to do so (e.g. for the defence of legal claims or for another's protection). Where we agree to stop processing the personal data, we will try to tell any third party to whom we have disclosed the relevant personal data so that they can stop processing the data, as well. The Awardee may request that we stop processing and just store the personal data held about the Awardee where:

- the Awardee believes the personal data is not accurate for the period it takes for us to verify whether the data is accurate;
- we wish to erase the personal data as the processing we are doing is unlawful but the Awardee wants us to simply restrict the use of that data; or

- we no longer need the personal data for the purposes of the processing but the Awardee requires us to retain the data for the establishment, exercise or defence of legal claims.

In the event that the Awardee wishes to make a complaint about how we process the Awardee's personal data, please use the above email address and we will endeavour to deal with such requests as soon as possible. This is without prejudice to the Awardee's right to launch a claim with the relevant data protection authority.

The Awardee's obligations in relation to Personal Data

It is important that changes in the Awardee's personal circumstances are updated as soon as possible by making changes directly through the Meidas and Fidelity NetBenefits portals, as stated above in the section entitled 'The Awardee's rights in relation to their Personal Data held by the Company'.

Changes to this Notice

This Notice may be amended from time to time at the Company's discretion. The Awardee will be notified of any changes to this Notice.

AUSTRALIA

Offer Document. The Stock Award is intended to comply with the provisions of the Corporations Act 2001, Australian Securities and Investments Commission ("ASIC") Regulatory Guide 49 and ASIC Class Order CO 14/1000. Additional details are set forth in the Australian Offer Document, which is provided to Awardees along with this Award Agreement.

Tax Information. Subdivision 83A-C of the Income Tax Assessment Act, 1997, applies to Stock Awards granted under the Plan, such that the Stock Awards are intended to be subject to deferred taxation.

BRAZIL

Compliance with Law. By accepting the Stock Award, the Awardee acknowledges his or her agreement to comply with applicable Brazilian laws and to report and pay any and all applicable taxes associated with the Stock Award, the receipt of any dividends and the sale of Shares acquired under the Plan.

Nature of the Award. This provision supplements Section 10 (Nature of the Award) of the Award Agreement.

By participating in the Plan, the Awardee acknowledges, understands and agrees that (i) the Awardee is making an investment decision, (ii) Shares will be issued to the Awardee only if he or she remains in Service through each vesting date, and (iii) the value of the Shares is not fixed and may increase or decrease in value without compensation to the Awardee.

CANADA

Stock Awards Settled in Shares Only. Notwithstanding anything to the contrary in the Plan and/or the Award Agreement, the Awardee understands that any Stock Awards granted to the Awardee shall be paid in Shares only and do not provide any right for the Awardee to receive a cash payment.

The following provision will apply to residents of Quebec:

Language Consent. The parties acknowledge that it is their express wish that the Award Agreement, as well as all documents, notices, and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English.

Les parties reconnaissent avoir exigé la rédaction en anglais de cette convention, ainsi que de tous documents, avis et procédures judiciaires, exécutés, donnés ou intentés en vertu de, ou liés directement ou indirectement à la présente convention.

Additional Restrictions on Resale. In addition to the restrictions on resale and transfer noted in Plan materials, securities purchased under the Plan may be subject to certain restrictions on resale imposed by Canadian provincial securities laws. The Awardees are encouraged to seek legal advice prior to any resale of such securities. In general, Awardees resident in Canada may resell their securities in transactions carried out on exchanges outside of Canada.

Form of Payment. Due to legal restrictions in Canada and notwithstanding any language to the contrary in the Plan, grantees are prohibited from surrendering Shares that they already own or from attesting to the ownership of Shares to pay any Tax-Related Items in connection with the Stock Award granted.

CHINA

SAFE Compliance. It is intended that the Award Agreement and the Plan comply with any applicable requirements of the State Administration of Foreign Exchange (“SAFE”) in China. The Award Agreement and the Plan shall be administered in a manner consistent with this intent, and any provision that would cause the Award Agreement or the Plan to fail to meet with SAFE approval shall have no force and effect until amended to comply with SAFE requirements. The Awardee agrees in advance to any such required amendment.

Repatriation Requirement. All proceeds received upon the sale of Shares and dividends that an Awardee may receive under the Stock Award must be immediately repatriated to China. The Awardee understands and agrees that all proceeds from the Stock Award will first be sent to the designated SAFE bank account of the Company. Further, if the proceeds are converted to local currency, the Awardee acknowledges that the Company (including its Subsidiaries) are under no obligation to secure any currency conversion rate, and may face delays in converting the proceeds to local currency and transferring the proceeds to the Awardee due to exchange control and/or other regulatory restrictions in China. The Awardee agrees to bear the risk of any currency conversion rate fluctuation between the date that sale proceeds are delivered to the special bank account and the date of

conversion of the proceeds to local currency. The Awardee further agrees to comply with any other requirements that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in China.

Termination of Employment or Service. Notwithstanding anything to the contrary in the Plan or the Award Agreement, the Awardee agrees that upon the termination of the Awardee's Service in China, the Company may sell any Shares acquired pursuant to the Stock Award not later than 90 calendar days after the termination date (or such other period as may be required by SAFE). The Awardee authorizes the Company's designated broker to sell such Shares on Awardee's behalf at such time as determined by the Company, in its sole discretion, or as soon as is administratively practical thereafter. The Awardee further agrees that the Company is authorized to instruct its designated broker to assist with the mandatory sale of the Shares (on the Awardee's behalf pursuant to this authorization), and the Awardee expressly authorizes such broker to complete the sale of such Shares. The Awardee acknowledges that the Company's designated broker is under no obligation to arrange for the sale of Shares at any particular price. Upon the sale of the Shares, the Company agrees to pay the cash proceeds from the sale, less any brokerage fees or commissions, to the Awardee in accordance with applicable exchange control laws and regulations and provided any liability for Tax-Related Items has been satisfied.

DENMARK

Termination of Employment or Service. Section 4(a) of the Award Agreement is amended in its entirety to read as follows and the following new subsections (f) and (g) are added to the end of Section 4:

“(a) Except as set forth in this Section 4 or another written agreement between the Awardee and the Company, any unvested portion of the Stock Award shall be forfeited immediately when the Awardee has had a termination of Service or otherwise ceases to be an Awardee Eligible to Vest.”

“(f) Notwithstanding any provision in the Plan to the contrary, if an Awardee is terminated by the Company for any reason other than breach, any unvested Stock Award will continue to vest under the vesting schedule set forth in Section 2 above.”

“(g) Notwithstanding any provision in the Plan to the contrary, if an Awardee resigns or is terminated by the Company for breach, any unvested Stock Awards shall be forfeited immediately when the Awardee gives or is given notice of termination of his Service or otherwise ceases to be an Awardee Eligible to Vest.”

Additional Documents. A copy of the Employer Statement has also been provided to the Awardee in addition to this Award Agreement.

FRANCE

French-Qualified Stock Award. This Stock Award is intended to qualify for specific tax and social security treatment in France under Section L. 225-197-1 to L. 225-197-6-1 of the French Commercial

Code, as amended (a “French-qualified” Stock Award). Certain events may affect the status of the Stock Award as French-qualified and the Stock Award may be disqualified in the future. The Company does not make any undertaking or representation to maintain the qualified status of the Stock Award. If the Stock Award no longer qualifies as a French-qualified Stock Award, the specific tax and social security treatment will not apply, and the Awardee will be required to pay his or her portion of social security contributions resulting from the Stock Award (as well as any income tax that is due).

Plan and French Plan Terms. The Stock Award is subject to the terms and conditions of the Plan and the Rules of the Agilent Technologies, Inc. 2018 Stock Plan for Stock Options and Restricted Stock Units Granted to Participants in France (the “French Plan”). To the extent that any term is defined in both the Plan and the French Plan, for purposes of this grant of a French-qualified Stock Award, the definitions in the French Plan shall prevail.

Settlement in Shares. Notwithstanding any discretion in the Plan or the Award Agreement to settle the Stock Award in cash, the French-qualified Stock Award will be settled in Shares only. The Stock Award does not provide any right for Awardee to receive a cash payment.

Termination of Employer or Service. This provision replaces Section 4(b) of the Award Agreement in its entirety:

Notwithstanding any provision in the Plan or Award Agreement to the contrary, in the event of the Awardee’s death while employed by the Company or a Subsidiary or Affiliate or after the Awardee’s termination of Service in accordance with Section 4(d), on the date of death, the Stock Award shall become fully transferable to the Awardee’s heirs. The Awardee’s heirs may request issuance of the underlying Shares within six months of the Awardee’s death. If the Awardee’s heirs do not request the issuance of the underlying Shares within six months of the Awardee’s death, the Stock Award will be forfeited.

Restrictions on Sale of Shares. Awardee may not sell or transfer the Shares issued pursuant to the Stock Award prior to the second anniversary of the Grant Date or such other period as is required to comply with the minimum mandatory holding period applicable to Shares underlying French-qualified awards under Section L. 225-197-1 of the French Commercial Code, the French Tax Code or the French Social Security Code, as amended. Notwithstanding the above, the Awardee’s heirs, in case of the Awardee’s death, or the Awardee in case of the Awardee’s Disability (as defined under the French Plan), are not subject to this restriction on the sale of Shares.

If the Awardee qualifies as a managing director of the Company under French law (“*mandataires sociaux*” *i.e.*, *Président du Conseil d’Administration, Directeur Général, Directeur Général Délégué, Membre du Directoire, Gérant de Sociétés par actions*), the Awardee is required to hold 20% of the Shares issued upon the vesting of the Stock Award in a nominative account under procedures implemented by the Company and is not permitted to sell or transfer the Shares until he or she ceases to serve as a managing director, as long as this restriction is a requirement under French law and unless law or regulations provide for a lower percentage (in which case these requirements apply to the lower percentage of Shares required to be held).

Any Shares acquired upon vesting of the Stock Award may not be sold during certain Closed Periods as provided for and defined by Section L. 225-197-1 of the French Commercial Code, as amended, and by the French Plan, for so long as and to the extent that the Closed Periods are applicable to Shares underlying French-qualified Stock Awards granted by the Company.

No Recoupment. Section 19 of the Award Agreement shall not apply.

Consent to Receive Information in English. By accepting the Stock Award, Awardee confirms having read and understood the documents related to the Stock Award (the Plan as amended by the French Plan and this Award agreement) which were provided in the English language. Awardee accepts the terms of these documents accordingly.

Consentement Relatif à l'Utilisation de l'Anglais. En acceptant l'Attribution (« Stock Award »), le Bénéficiaire confirme avoir lu et compris les documents relatifs à l'Attribution (le Plan tel qu'amendé par le Plan pour la France et ce Contrat d'Attribution) qui ont été remis en anglais. Le Bénéficiaire accepte les termes de ces documents en connaissance de cause.

HONG KONG

Securities Law Notice. *Warning: The contents of this document have not been reviewed by any regulatory authority in Hong Kong. The Awardee should exercise caution in relation to the offer. If the Awardee is in any doubt about any of the contents of the Award Agreement, including this Country-Specific Addendum, or the Plan, the Awardee should obtain independent professional advice. Neither the grant of the Stock Awards nor the issuance of Shares upon vesting constitutes a public offering of securities under Hong Kong law and are available only to employees of the Company or its Subsidiaries or Affiliates. The Award Agreement, including this Country-Specific Addendum, the Plan and other incidental communication materials (i) have not been prepared in accordance with and are not intended to constitute a "prospectus" for a public offering of securities under the applicable securities legislation in Hong Kong and (ii) are intended only for the personal use of each eligible employee of the Company and its Subsidiaries and Affiliates and may not be distributed to any other person.*

Data Privacy. The following language is added to the end of Section 11 of the Award Agreement:

“The Data Protection Principles specified in Personal Data (Privacy) Ordinance (Chapter 486 of the Laws of Hong Kong) will apply to any Data upon its transfer to any location outside of Hong Kong.”

Additional Restrictions on Resale. In addition to the restrictions on resale and transfer noted in Plan materials, the Awardee agrees that, in the event that any portion of the Stock Award becomes vested and the Shares are issued prior to the six-month anniversary of the Grant Date, the Awardee will not sell any Shares acquired upon vesting / settlement prior to the six-month anniversary of the Grant Date.

Stock Award Settled in Shares Only. Notwithstanding anything to the contrary in the Plan and/or the Award Agreement, the Awardee understands that any Stock Award granted to the Awardee shall be paid in Shares only and do not provide any right for the Awardee to receive a cash payment.

ISRAEL

Shares must be held with the External Administrator. The Company has designated a third-party to provide administrative services in connection with the Plan (the “External Administrator”). Pursuant to its authority under the Plan, the Company will require that the Awardee hold any Shares issued to an Awardee in connection with the vesting of the Stock Award with the External Administrator until such time as the Awardee sells the Shares. Until the Awardee decides to sell the Shares issued pursuant to the vesting of the Stock Award, the Awardee cannot transfer the Shares to an account with another broker or request that share certificates be issued to the Awardee.

ITALY

Plan Document Acknowledgement. By accepting the Stock Award, the Awardee acknowledges that (a) the Awardee has received the Plan and this Award Agreement; (b) the Awardee has reviewed these documents in their entirety and fully understands the contents thereof; and (c) the Awardee accepts all provisions of the Plan and this Award Agreement. The Awardee further acknowledges that the Awardee has read and specifically and expressly approves, without limitation, the following sections of this Award Agreement: “Termination of Employment or Service”; “Nontransferability of Stock Award”; “Restrictions on Issuance of Shares”; “Responsibility for Taxes”; “Nature of the Award”; “Data Privacy” as replaced by the above provision; “No Rights Until Issuance”; “Governing Law and Venue”; “Language”; “Electronic Delivery and Acceptance”; “Recoupment” and “Entire Agreement”.

JAPAN

No Recoupment. Section 19 of the Award Agreement shall not apply.

MALAYSIA

Data Privacy. This provision replaces Section 11 of the Award Agreement in its entirety.

The Awardee hereby explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of his or her personal data as described in this Award Agreement, including any Country-Specific Addendum attached hereto, and any other Plan participation materials by and among, as applicable, the Employer, the Company and its Subsidiaries and Affiliates or any third parties authorized by the same for the exclusive purpose of implementing, administering and managing the Awardee's participation in the Plan.

The Awardee may have previously provided the Company and the Employer with and the Company and the Employer may hold certain personal information about the Awardee, including, but not limited to, the Awardee's name, home address and telephone number, email address, date of birth, social insurance number, passport or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, cancelled, exercised, purchased, vested, unvested or outstanding in the Awardee's favor ("Data"), for the exclusive purpose of implementing, administering and managing the Plan.

The Awardee understands that Data will be transferred to the External Administrator or such other stock plan service provider as may be selected by the Company in the future, which is assisting the Company with the implementation, administration and management of the Plan and that Data may be transferred to certain other third parties assisting the Company with the implementation, administration and management of the Plan. The Awardee understands that these recipients may be located in the United States or elsewhere, and that the recipients' country (e.g., the United States) may have different data privacy laws and protections than the Awardee's country. The Awardee understands that the Awardee may request a list with the names and addresses of any potential recipients of Data by contacting the Awardee's local human resources representative. The Awardee authorizes the Company, the External Administrator and any other possible recipients which may assist the Company (presently or in the future) with implementing, administering and managing the Plan to receive, possess, use, retain and transfer Data, in electronic or other form, for the sole purpose of implementing, administering and managing the Awardee's participation in the Plan, including any requisite transfer of such Data as may be required to a broker or third party with whom the Awardee may elect to deposit any Shares acquired pursuant to the Awardee's participation in the Plan. The Awardee understands that Data will be held only as long as is necessary to implement, administer and manage the Awardee's participation in the Plan. The Awardee understands that the Awardee may, at any time, view Data, request information about the storage and processing of

Penerima Anugerah dengan ini secara eksplisit dan tanpa sebarang keraguan mengizinkan pengumpulan, penggunaan dan pemindahan, dalam bentuk elektronik atau lain-lain, data peribadinya seperti yang dinyatakan dalam Perjanjian Penganugerahan ini, termasuklah apa-apa Lampiran khusus bagi negara yang dilampirkan di sini, dan apa-apa bahan penyertaan Pelan oleh dan di antara, sebagaimana yang berkenaan, Majikan, Syarikat dan Anak Syarikatnya dan Syarikat Sekutu atau mana-mana pihak ketiga yang diberi kuasa oleh yang sama untuk tujuan eksklusif bagi pelaksanaan, pentadbiran dan pengurusan penyertaan Penerima Anugerah dalam Pelan tersebut.

Sebelum ini, Penerima Anugerah mungkin telah membekalkan Syarikat dan Majikan dengan, dan Syarikat dan Majikan mungkin memegang, maklumat peribadi tertentu tentang Penerima Anugerah, termasuk, tetapi tidak terhad kepada, namanya, alamat rumah dan nombor telefon, alamat emel, tarikh lahir, nombor insurans sosial, pasport atau nombor pengenalan lain, gaji, kewarganegaraan, jawatan, apa-apa Syer atau jawatan pengarah yang dipegang dalam Syarikat, butir-butir semua Anugerah Saham atau apa-apa hak lain untuk Syer atau manfaat setaraf yang lain yang dianugerahkan, dibatalkan, dilaksanakan, dibeli, terletak hak, tidak diletak hak ataupun bagi faedah Penerima Anugerah ("Data"), untuk tujuan yang eksklusif bagi melaksanakan, mentadbir dan menguruskan Pelan tersebut.

Penerima Anugerah memahami bahawa Data akan dipindah kepada Pentadbir Luar atau pembekal perkhidmatan pelan saham lain yang mungkin dipilih oleh Syarikat pada masa depan, yang membantu Syarikat dalam melaksanakan, mentadbir dan menguruskan Pelan tersebut, dan Data mungkin boleh dipindahkan kepada pihak ketiga lain yang tertentu yang membantu Syarikat dengan pelaksanaan, pentadbiran, dan pengurusan Pelan. Penerima Anugerah memahami bahawa penerima-penerima ini mungkin berada di Amerika Syarikat atau di tempat lain, dan bahawa negara penerima (contohnya, Amerika Syarikat) mungkin mempunyai undang-undang privasi data dan perlindungan yang berbeza daripada negara Penerima Anugerah. Penerima Anugerah memahami bahawa Penerima Anugerah boleh meminta senarai dengan nama dan alamat mana-mana penerima Data yang berpotensi dengan menghubungi wakil sumber manusia tempatannya. Penerima Anugerah memberi kuasa kepada Syarikat, Pentadbir Luar dan mana-mana penerima lain yang mungkin membantu Syarikat (sama ada pada masa kini atau pada masa depan) untuk melaksanakan, mentadbir dan menguruskan Pelan tersebut untuk menerima, memiliki, menggunakan, mengekalkan dan memindahkan Data, dalam bentuk elektronik atau lain-lain, semata-matanya untuk melaksanakan, mentadbir dan menguruskan penyertaan Penerima Anugerah dalam Pelan tersebut, termasuk apa-apa pemindahan Data yang diperlukan kepada broker atau pihak ketiga dengan sesiapa yang dipilih oleh Penerima Anugerah untuk deposit apa-apa Saham yang diperolehi menurut penyertaannya dalam Pelan tersebut. Penerima Anugerah faham bahawa Data akan dipegang hanya untuk tempoh yang diperlukan untuk melaksanakan, mentadbir dan menguruskan penyertaannya dalam Pelan tersebut.

Data, require any necessary amendments to Data or refuse or withdraw the consents herein, in any case without cost, by contacting his or her local human resources representative. Further, the Awardee understands that the Awardee is providing the consents herein on a purely voluntary basis. If the Awardee does not consent, or if the Awardee later seeks to revoke his or her consent, the Awardee's Service with the Employer will not be affected; the only consequence of refusing or withdrawing the Awardee's consent is that the Company would not be able to grant Stock Awards or other equity awards to the Awardee or administer or maintain such awards. Therefore, the Awardee understands that refusing or withdrawing his or her consent may affect the Awardee's ability to participate in the Plan. For more information on the consequences of the Awardee's refusal to consent or withdrawal of consent, Awardee understands that the Awardee may contact his or her local human resources representative.

Penerima Anugerah memahami bahawa Penerima Anugerah boleh, pada bila-bila masa, melihat data, meminta maklumat mengenai penyimpanan dan pemprosesan Data, meminta bahawa pindaan-pindaan dilaksanakan ke atas Data atau menolak atau menarik balik persetujuan dalam ini, dalam mana-mana kes, tanpa kos, dengan menghubungi wakil sumber manusia tempatannya. Selanjutnya, Penerima Anugerah memahami bahawa dia memberikan persetujuan di sini secara sukarela. Jika Penerima Anugerah tidak bersetuju, atau jika Penerima Anugerah kemudian membatalkan persetujuannya, perkhidmatan Penerima Anugerah dengan Majikan tidak akan terjejas; hanya satunya akibat jika dia tidak bersetuju atau menarik balik persetujuannya, iaitu, Syarikat tidak akan dapat memberikan Anugerah-anugerah Saham atau anugerah ekuiti lain kepada Penerima Anugerah atau mentadbir atau mengekalkan anugerah tersebut. Oleh itu, Penerima Anugerah memahami bahawa keengganan atau penarikan balik persetujuannya boleh menjejaskan keupayaannya untuk mengambil bahagian dalam Pelan tersebut. Untuk maklumat lanjut mengenai akibat keengganan Penerima Anugerah untuk memberikan keizinan atau penarikan balik keizinan, Penerima Anugerah memahami bahawa Penerima Anugerah boleh menghubungi wakil sumber manusia tempatannya.

Director Notification Requirement. If the Awardee is a director of a Malaysian Subsidiary or Affiliate of the Company, the Awardee is subject to certain notification requirements under the Malaysian Companies Act, 1965. Among these requirements is an obligation to notify the Malaysian Subsidiary or Affiliate in writing when the Awardee receives an interest (*e.g.*, Stock Award, Shares) in the Company or any related companies. In addition, the Awardee must notify the Malaysian Subsidiary or Affiliate when the Awardee sells Shares in the Company or any related company (including when the Awardee sells Shares acquired under the Plan). These notifications must be made within fourteen days of acquiring or disposing of any interest in the Company or any related company.

MEXICO

Labor Law Policy and Acknowledgment. In accepting the grant of the Stock Award, the Awardee expressly recognizes that Agilent Technologies, Inc., with registered offices at 5301 Stevens Creek Boulevard, Santa Clara, California 95051, United States of America, is solely responsible for the administration of the Plan and that the Awardee's participation in the Plan and acquisition of Shares do not constitute an employment relationship between the Awardee and Agilent Technologies, Inc. since the Awardee is participating in the Plan on a wholly commercial basis and the Awardee's sole employer is Agilent Technologies Mexico, S. de R.L. de C.V., Av. Insurgentes Sur no. 1602, Suite 801, Mexico City, Mexico CP 03940 ("Agilent-Mexico"). Based on the foregoing, the Awardee expressly recognizes that the Plan and the benefits that the Awardee may derive from participating in the Plan do not establish any rights between the Awardee and the Employer, Agilent-Mexico, and do not form part of the employment conditions and/or benefits provided by Agilent-Mexico and any modification of the Plan or its termination shall not constitute a change or impairment of the terms and conditions of the Awardee's employment.

The Awardee further understands that his or her participation in the Plan is as a result of a unilateral and discretionary decision of Agilent Technologies, Inc.; therefore, Agilent Technologies, Inc. reserves the absolute right to amend and/or discontinue the Awardee's participation at any time without any liability to the Awardee.

Finally, the Awardee hereby declares that the Awardee does not reserve to himself or herself any action or right to bring any claim against Agilent Technologies, Inc. for any compensation or damages regarding any provision of the Plan or the benefits derived under the Plan, and the Awardee therefore grants a full and broad release to Agilent Technologies, Inc., its Affiliates, branches, representation offices, its shareholders, officers, agents or legal representatives with respect to any claim that may arise.

Reconocimiento de Ausencia de Relación Laboral y Declaración de la Política. Aceptando la Stock Award, el Participante reconoce que Agilent Technologies, Inc. y sus oficinas registradas en 5301 Stevens Creek Boulevard, Santa Clara, California 95051, U.S.A., es el único responsable de la administración del Plan y que la participación del Participante en el mismo y la compra de Acciones no constituye de ninguna manera una relación laboral entre el Participante y Agilent Technologies, Inc., toda vez que la participación del Participante en el Plan deriva únicamente de una relación comercial con Agilent Technologies, Inc., reconociendo expresamente que el único empleador del Participante lo es Agilent Technologies Mexico, S. de R.L. de C.V., Blvd. Av. Insurgentes Sur no. 1602, Suite 801, Mexico City, Mexico CP 03940 ("Agilent-México"). Derivado de lo anterior, el Participante expresamente reconoce que el Plan y los beneficios que pudieran derivar del mismo no establecen ningún derecho entre el Participante y su empleador, Agilent-México, y no forman parte de las condiciones laborales y/o prestaciones otorgadas por Agilent-México, y expresamente el Participante reconoce que cualquier modificación al Plan o la terminación del mismo de manera alguna podrá ser interpretada como una modificación de los condiciones de trabajo del Participante.

Asimismo, el Participante entiende que su participación en el Plan es resultado de la decisión unilateral y discrecional de Agilent Technologies, Inc., por lo tanto, Agilent Technologies, Inc. se

reserva el derecho absoluto para modificar y/o terminar la participación del Participante en cualquier momento, sin ninguna responsabilidad para el Participante.

Finalmente, el Participante manifiesta que no se reserva ninguna acción o derecho que origine una demanda en contra de Agilent Technologies, Inc., por cualquier compensación o daño en relación con cualquier disposición del Plan o de los beneficios derivados del mismo, y en consecuencia el Participante otorga un amplio y total finiquito a Agilent Technologies, Inc., sus Entidades Relacionadas, afiliadas, sucursales, oficinas de representación, sus accionistas, directores, agentes y representantes legales con respecto a cualquier demanda que pudiera surgir.

NEW ZEALAND

Securities Law Notice. *Warning:* This is an offer of rights to receive Shares underlying the Stock Awards. Stock Awards give Awardees a stake in the ownership of the Company. The Awardee may receive a return if dividends are paid on the Shares.

If the Company runs into financial difficulties and is wound up, the Awardee will be paid only after all creditors and holders of preferred shares have been paid. The Awardee may lose some or all of his or her investment.

New Zealand law normally requires people who offer financial products to give information to investors before they invest. This information is designed to help investors to make an informed decision. The usual rules do not apply to this offer because it is made under an employee share scheme. As a result, the Awardee may not be given all the information usually required. The Awardee will also have fewer other legal protections for this investment.

The Awardee should ask questions, read all documents carefully, and seek independent financial advice before committing himself or herself.

The Shares are quoted or approved for trading on the New York Stock Exchange (“NYSE”). This means that, if the Awardee vests in Stock Awards and Shares are issued to the Awardee, the Awardee can sell his or her investment on the NYSE if there are buyers for it. If the Awardee sells his or her investment, the price he or she receives may vary depending on factors such as the financial condition of the Company. The Awardee may receive less than the full amount that he or she paid for it, if anything.

For information on risk factors impacting the Company’s business that may affect the value of the Shares, the Awardee should refer to the risk factors discussion in the Company’s Annual Report on Form 10-K and Quarterly Reports on Form 10-Q, which are filed with the U.S. Securities and Exchange Commission and are available online at www.sec.gov, as well as on the Company’s “Investor Relations” website at <http://investor.agilent.com>.

For more details on the terms and conditions of the Stock Awards, please refer to this Award Agreement, the Plan and the prospectus which are available on the External Administrators website and free of charge on request via email to agilent_globalequity@agilent.com.

As noted above, the Awardee should carefully read the materials provided before making a decision whether to participate in the Plan. The Awardee should also contact his or her tax advisor for specific information concerning Awardee's personal tax situation with regard to Plan participation.

RUSSIA

Shares must be held with the External Administrator. The Company has designated a third-party to provide administrative services in connection with the Plan (the "External Administrator"). Pursuant to its authority under the Plan, the Company will require that the Awardee hold any Shares issued to Awardee in connection with the vesting of the Stock Award with the External Administrator until such time as the Awardee sells the Shares. Until the Awardee decides to sell the Shares issued pursuant to the vesting of the Stock Award, the Awardee cannot transfer the Shares to an account with another broker or request that share certificates be issued to the Awardee.

Securities Law Notice. The Award Agreement, the Stock Award, the Plan and all other materials the Awardee may receive regarding participation in the Plan do not constitute advertising or an offering of securities in Russia. The issuance of Shares under the Plan has not and will not be registered in Russia and, therefore, the Shares described in any Plan documents may not be offered or placed in public circulation in Russia.

In no event will Shares acquired upon vesting of the Stock Award be delivered to you in Russia; all Shares acquired upon vesting of the Stock Award will be maintained on the Awardee's behalf outside of Russia.

The Awardee is not permitted to sell Shares directly to a Russian legal entity or resident.

Data Privacy. This provision replaces Section 11 of the Award Agreement:

"The Awardee explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of the Awardee's personal data as described in this document by and among, as applicable, the Company, the Employer and the External Administrator as well as any of their respective Subsidiaries or Affiliates for the exclusive purpose of implementing, administering and managing the Awardee's participation in the Plan.

The Awardee hereby understands that the Company and the Employer hold certain personal information about the Awardee, including, but not limited to, the Awardee's name, home address and telephone number, email address, date of birth, social insurance, passport or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, canceled, exercised, vested, unvested or outstanding in the Awardee's favor, for the purpose of implementing, administering and managing the Plan ("**Data**"). The Awardee hereby understands that Data may be transferred to any third parties (including the External Administrator) assisting in the implementation, administration and management of the Plan, that these recipients may be located in the Awardee's country or elsewhere, such as the United States of America and/or other countries where cross-border transfer to which is not allowed by applicable law without the employee's specific consent (i.e. based on the

Russian legislation in force as at the date hereof, such countries include countries which are neither member states under the Convention on Protection of Individuals with regard to Automatic Processing of Personal Data 1981 nor listed by the Russian Data Protection Authority (the Russian Federal Service for Supervision in Communications, Information Technology and Mass Media, or Roscomnadzor or replacement authority as countries with the adequate data protection mechanisms), and that the recipient's country may have different data privacy laws and protections than the Awardee's country. All such transfers of Data will be in accordance with the Company's Privacy Policies and Guidelines. The Awardee hereby understands that the Awardee may request a list with the names and addresses of any potential recipients of the Data and any other information on his or her personal data and their processing in accordance with applicable law by contacting the Awardee's local human resources representative. The Awardee authorizes the recipients to receive, possess, use, retain and transfer the Data, in electronic or other form, for the purposes of implementing, administering and managing the Awardee's participation in the Plan, including any requisite transfer (including cross-border transfer as set out above) of such Data as may be required to a broker or other third party with whom the Awardee may elect to deposit any Shares acquired upon vesting of the Stock Award. The Awardee hereby understands that the Awardee may, at any time, view and obtain a copy of Data, request information about the storage and processing of Data, require any necessary amendments to Data. Further, the Awardee understands that he or she is providing the consents herein on a purely voluntary basis. If the Awardee does not consent, or if he or she later seeks to revoke his or her consent, his or her employment status or service with the Employer will not be affected by reason of his or her refusal to consent; the only consequence of refusing or withdrawing the Awardee's consent is that the Company would not be able to grant Stock Awards or other equity awards to the Awardee or administrator or maintain such awards. Therefore, the Awardee understands that refusing or withdrawing his or her consent may affect his or her ability to participate in the Plan. For more information on the consequences of the Awardee's refusal to consent or withdrawal of consent, the Awardee understands that he or she may contact his or her human resources representative responsible for the Awardee's country at the local or regional level.

Finally, the Awardee agrees to promptly provide an executed (in paper or other form as may be requested by the Company and/or the Employer) data privacy consent form (and/or, in addition to the said consent form, any other agreements and/or consents) that the Company and/or the Employer may deem necessary to obtain from the Awardee for the purpose of administering the Awardee's participation in the Plan in compliance with the data privacy laws in his or her country, either now or in the future. The Awardee understands and agrees that he or she will not be able to participate in the Plan if he or she fails to provide any such consent or agreement requested by the Company and/or the Employer.

SINGAPORE

Additional Restrictions on Resale. In addition to the restrictions on resale and transfer noted in the Plan materials, the Awardee agrees that, in the event that any portion of the Stock Award becomes vested and the Shares are issued prior to the six-month anniversary of the Grant Date, the Awardee will not sell any Shares acquired upon vesting / settlement prior to the six-month anniversary of the Grant Date, unless such sale or offer is made pursuant to the exemption under Part XIII Division I Subdivision (4) (other than section 280) of the Securities and Futures Act (Chap. 289, 2006 Ed.) (“SFA”).

Securities Law Notice. The grant of the Stock Award is being made pursuant to the “Qualifying Person” exemption” under section 273(1)(f) of the SFA and is not made with a view to the Shares being subsequently offered for sale to any other party. The Plan has not been lodged or registered as a prospectus with the Monetary Authority of Singapore.

CEO / Director Notification Requirement. If the Awardee is the Chief Executive Officer (“CEO”) or a director, associate director or shadow director of a Singapore Subsidiary or Affiliate he or she is subject to certain notification requirements under the Singapore Companies Act, regardless of whether he or she is a Singapore resident or employed in Singapore. Among these requirements is the obligation to notify the Singapore Subsidiary or Affiliate in writing of an interest (e.g., Stock Award, Shares, etc.) in the Company or any related companies within two days of (i) its acquisition or disposal, (ii) any change in a previously disclosed interest (e.g., when the Shares are sold), or (iii) becoming the CEO or a director.

Data Privacy. This provision replaces Section 11 of the Award Agreement:

The Awardee explicitly and unambiguously consents to the collection, use, disclosure and transfer, in electronic or other form, of the Awardee’s personal data as described in this document by and among, as applicable, the Company, the Employer and the External Administrator for the exclusive purpose of implementing, administering and managing the Awardee’s participation in the Plan.

The Awardee hereby understands that the Company and the Employer hold certain personal information about the Awardee, including, but not limited to, the Awardee’s name, home address and telephone number, email address, date of birth, social insurance, passport or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, canceled, exercised, vested, unvested or outstanding in the Awardee’s favor, for the purpose of implementing, administering and managing the Plan (“Data”). The Awardee hereby understands that Data may be transferred to any third parties (including the External Administrator) assisting in the implementation, administration and management of the Plan, that these recipients may be located in the Awardee’s country or elsewhere, such as outside the European Economic Area, and that the recipient’s country may have different data privacy laws and protections than the Awardee’s country. All such transfers of Data will be in accordance with the Company’s Privacy Policies and Guidelines. The Company or the Employer will impose contractual obligations on recipients to only

process the data for the purposes set out herein. In addition, in the event that the Company or the Employer transfers Data to a recipient who is located outside of the country that Awardee's Data was collected, the Company or the Employer (as applicable) shall ensure that the recipient provides the Awardee's Data a level of protection comparable to that of the data protection laws in the country in which the Data was collected. This includes, but is not limited to, ensuring that the recipient has in place adequate security measures to protect the Data, and ensuring that the recipient does not retain the Data longer than necessary for the purposes set out herein or for any other legal purposes.

The Awardee hereby understands that the Awardee may request a list with the names and addresses of any potential recipients of the Data by contacting the Awardee's local human resources representative. The Awardee authorizes the recipients to receive, possess, use, retain and transfer the Data, in electronic or other form, for the purposes of implementing, administering and managing the Awardee's participation in the Plan, including any requisite transfer of such Data as may be required to a broker or other third party with whom the Awardee may elect to deposit any Shares acquired upon vesting of the Stock Award. The Awardee hereby understands that the Awardee may, at any time, view Data, request information about the storage and processing of Data, require any necessary amendments to Data. Further, the Awardee understands that he or she is providing the consents herein on a purely voluntary basis. If the Awardee does not consent, or if he or she later seeks to revoke his or her consent, his or her employment status or service with the Employer will not be affected by reason of his or her refusal to consent; the only consequence of refusing or withdrawing the Awardee's consent is that the Company would not be able to grant Stock Awards or other equity awards to the Awardee or administrator or maintain such awards. Therefore, the Awardee understands that refusing or withdrawing his or her consent may affect his or her ability to participate in the Plan. For more information on the consequences of the Awardee's refusal to consent or withdrawal of consent, the Awardee understands that he or she may contact his or her human resources representative responsible for the Awardee's country at the local or regional level.

Finally, upon request of the Company or the Employer, the Awardee agrees to provide an executed data privacy consent form (or any other agreements or consents that may be required by the Company and/or the Employer) that the Company and/or the Employer may deem necessary to obtain from the Awardee for the purpose of administering the Awardee's participation in the Plan in compliance with the data privacy laws in his or her country, either now or in the future. The Awardee understands and agrees that he or she will not be able to participate in the Plan if he or she fails to provide any such consent or agreement requested by the Company and/or the Employer.

SOUTH KOREA

Data Privacy. This provision is an addendum to Section 11 of the Award Agreement.

Period of Retention and Use. The Company, Employer or any third parties (including the External Administrator) assisting in the implementation, administration and management of the Plan will retain and use your personal data in accordance with the time periods and in the format specified in the General Retention Schedule Retention. In the following circumstances, the Awardee's personal data may be retained for longer than the specified periods:

- as required by law or court order; and
- as needed to defend or pursue legal claims.

Third Party Transfer of Personal Data.

1. Your personal data may be transferred to third parties as below:

Fidelity Investments Institutional Operations Company

2. Third Party's Purpose of Using the Personal Information: The purposes in which the third party receives and processes the personal data are the same as stated in Section 11 above.

3. Items of Personal Data to be Transferred: The personal data that the third party processes are the same as stated in Section 11 above.

4. Period of Retention and Use by Recipient: Until the recipient's purpose of using the personal information is achieved.

SPAIN

Labor Law Acknowledgment. This provision supplements Section 10 (Nature of the Award) of the Award Agreement:

In accepting the Stock Award, the Awardee acknowledges that the Awardee consents to participation in the Plan and has received a copy of the Plan.

The Awardee understands that the Company has unilaterally, gratuitously and discretionally decided to grant the Stock Award under the Plan to individuals who may be employees of the Company or its Affiliates or Subsidiaries throughout the world. The decision is a limited decision that is entered into upon the express assumption and condition that any grant will not bind the Company or any of its Affiliates or Subsidiaries. Consequently, the Awardee understands that the Stock Award is granted on the assumption and condition that the Stock Award and any Shares acquired upon vesting of the Stock Award shall not become a part of any employment contract (either with the Company or any of its related entities) and shall not be considered a mandatory benefit, salary for any purposes (including severance compensation) or any other right whatsoever.

Additionally, the Awardee understands that the vesting of the Stock Award is expressly conditioned on the Awardee's continued and active rendering of Service to the Company or a Subsidiary or Affiliate such that if the Awardee's Service is terminated for any reason (including for the reasons listed below but with the exception of the circumstances specified in Section 4(b)-(d) of the Award

Agreement), the Award will cease vesting immediately effective as of the date the Awardee's Service is terminated. This will be the case, for example, even if (a) the Awardee is considered to be unfairly dismissed without good cause (*i.e.*, subject to a "*despido improcedente*"); (b) the Awardee is dismissed for disciplinary or objective reasons or due to a collective dismissal; (c) the Awardee's Service is terminated due to a change of work location, duties or any other employment or contractual condition; (d) the Awardee's Service is terminated due to unilateral breach of contract of the Company or any of its Subsidiaries or Affiliates; or (e) the Awardee's Service is terminated for any other reason (with the exception of the circumstances specified in Section 4(b)-(d) of the Award Agreement). Consequently, upon termination of Service for any of the above reasons, the Awardee will automatically lose any rights to the Stock Award to the extent that it has not yet become vested as of the date the Awardee's Service is terminated, as described in the Award Agreement. The Awardee acknowledges that he or she has read and specifically accepts the conditions referred to above and in Section 4 of the Award Agreement.

Finally, the Awardee understands that this grant would not be made to the Awardee but for the assumptions and conditions referred to above; thus, the Awardee acknowledges and freely accepts that should any or all of the assumptions be mistaken or should any of the conditions not be met for any reason, then any grant of or right to the Stock Award shall be null and void.

Securities Law Acknowledgement. The Stock Award and the Shares subject to the Stock Award do not qualify under Spanish regulation as securities. No "offer of securities to the public," as defined under Spanish law, has taken place or will take place in the Spanish territory. The Award Agreement has not been nor will be registered with the *Comisión Nacional del Mercado de Valores*, and does not constitute a public offering prospectus.

SWITZERLAND

Securities Law Notice. The offering of the Plan is considered a private offering in Switzerland; therefore, it is not subject to registration in Switzerland. Neither this document nor any other materials relating to the Plan (i) constitutes a prospectus as such term is understood pursuant to article 652a of the Swiss Code of Obligations, (ii) may be publicly distributed nor otherwise made publicly available in Switzerland, or (iii) have been or will be filed with, approved or supervised by any Swiss regulatory authority, including the Swiss Financial Market Supervisory Authority (FINMA).

TAIWAN

Securities Law Notice. The offer of participation in the Plan is available only for employees of the Company and its Subsidiaries or Affiliates. The offer of participation in the Plan is not a public offer of securities by a Taiwanese company.

UNITED KINGDOM

Termination of Employment or Service. Section 4(a) of the Award Agreement is hereby amended in its entirety to read as follows:

“(a) Any unvested Stock Award shall be forfeited immediately when the Awardee ceases to be an Awardee Eligible to Vest, unless the Awardee ceases to be an Awardee Eligible to Vest due to the Awardee’s death, total and permanent disability, termination of Service in accordance with Section 4(d) or participation in the Company’s Workforce Management Program. Except as the Committee may otherwise determine, termination of the Awardee’s employment or service for any reason shall occur on the date such Awardee ceases to perform services for the Company or any Affiliate without regard to whether such Awardee continues thereafter to receive any compensatory payments therefrom or is paid salary thereby in lieu of notice of termination or, with respect to a member of the Board who is not also an employee of the Company or any Subsidiary, on the date such Awardee is no longer a member of the Board.”

Responsibility for Taxes. The following provision supplements Section 7 (Responsibility for Taxes) of the Award Agreement:

“Without limitation to Section 7 of the Award Agreement, the Awardee agrees that the Awardee is liable for all Tax-Related Items and hereby covenants to pay all such Tax-Related Items as and when requested by the Company or, if different, the Employer or by Her Majesty’s Revenue and Customs (“HMRC”) (or any other tax authority or any other relevant authority). The Awardee also agrees to indemnify and keep indemnified the Company or the Employer against any Tax-Related Items that they are required to pay or withhold or have paid or will pay to HMRC (or any other tax authority or any other relevant authority) on the Awardee’s behalf.

Notwithstanding the foregoing, if the Awardee is a director or executive officer of the Company (within the meaning of Section 13(k) of the Exchange Act), the terms of the immediately foregoing provision will not apply. In such case, if the amount of any income tax due is not collected from or paid by the Awardee within 90 days of the end of the U.K. tax year in which an event giving rise to the indemnification described above occurs, the amount of any uncollected income taxes may constitute a benefit to the Awardee on which additional income tax and national insurance contributions (“NICs”) may be payable. The Awardee will be responsible for reporting and paying any income tax due on this additional benefit directly to HMRC under the self-assessment regime and for paying to the Company or the Employer, as applicable, any employee NICs due on this additional benefit, which the Company or the Employer may recover from the Awardee by any of the means referred to in Section 7 of the Award Agreement.”

Joint Election. As a condition of the Awardee’s participation in the Plan and the vesting of the Stock Award, the Awardee agrees to accept any liability for secondary Class 1 national insurance contributions (the “Employer NICs”) which may be payable by the Company and/or the Employer in connection with the Stock Award and any event giving rise to Tax-Related Items. To accomplish

the foregoing, the Awardee agrees to execute a joint election with the Company (the “Election”), the form of such Election being formally approved by HMRC, and any other consent or elections required to accomplish the transfer of the Employer NICs to the Awardee. The Awardee further agrees to execute such other joint elections as may be required between him or her and any successor to the Company and/or the Employer. The Awardee further agrees that the Company and/or the Employer may collect the Employer NICs by any of the means set forth in Section 7 of the Award Agreement.

No Recoupment. Section 19 of the Award Agreement shall not apply.

AGILENT TECHNOLOGIES, INC.

2018 Stock Plan
Officer and Executive Stock Award Agreement
Under the Long-Term Performance Program

Section 1. Grant of Stock Award. This Stock Award Agreement, including any additional terms for your country in the Country-Specific Addendum attached hereto (collectively, this “Award Agreement”), dated as of the grant date (the “Grant Date”) indicated in your account maintained by the company providing administrative services (the “External Administrator”) in connection with the Agilent Technologies, Inc. 2018 Stock Plan (the “Plan”), is entered into between Agilent Technologies, Inc. (the “Company”) and you as an individual (the “Awardee”) who has been granted a Stock Award of Restricted Stock Units (the “Stock Award”) pursuant to the Plan. The Stock Award represents the right to receive the number of Shares indicated in the Awardee’s External Administrator account subject to the fulfillment of the conditions set forth below and pursuant to and subject to the terms and conditions set forth in the Plan, the Long-Term Performance Program (“LTPP”) and the administrative rules thereunder. The Stock Award is an unfunded and unsecured promise by the Company to deliver Shares in the future. Capitalized terms used and not otherwise defined herein are used with the same meanings as in the Plan.

Section 2. Performance Period. The Stock Award shall vest upon the achievement of Company performance criteria as set by the Committee at the time of grant and set forth in a separate notice (the “Notice”) provided to the Awardee, which shall be deemed to constitute a part of this Award Agreement. The Stock Award shall vest subject to the achievement of the “Performance Criteria” over the “Performance Period” (as such terms are defined in the Notice). Depending upon achievement of the Performance Criteria as solely determined by the Committee, the Stock Award may vest and be paid out at any level from zero to the percentage of the Target Award set forth in the Notice, subject to any dollar-denominated limit set forth in the Notice. For purposes hereof, “Target Award” shall mean the target number of Shares under the Stock Award determined at the 100% payout level. Subject to Section 5(f), any payout of the Stock Award, including if the payment is equal to the Prorated Amount (as defined in Section 5(g)), shall occur as soon as practicable (and in all events within 74 days) after the end of the Performance Period.

Section 3. Committee Certification. The Stock Award shall not vest and no Shares will be issued to the Awardee until the Committee has certified in writing that the Performance Criteria have been achieved or exceeded.

Section 4. Nontransferability of Stock Award. The Stock Award shall not be transferable by the Awardee otherwise than by will or by the laws of descent and distribution. The terms of the Stock Award shall be binding on the executors, administrators, heirs and successors of the Awardee.

Section 5. Termination of Employment or Service.

(a) If the Awardee, whether voluntarily or involuntarily, terminates from the Company or otherwise ceases to be employed as an Officer or Executive (as defined below) at any time during the Performance Period, the Awardee shall not be eligible to receive a payout except as set forth in this Section 5 or another written agreement between the Awardee and the Company. Except as provided in this Section 5, in order to receive payment of the Stock Award upon vesting, the Awardee must be an employee of the Company or an Affiliate on the last day of the Performance Period. Except as the Committee may otherwise determine, termination of the Awardee's employment for any reason shall be determined without regard to whether the Awardee continues thereafter to receive any compensatory payments therefrom or is paid salary thereby in lieu of notice of termination.

(b) If the Awardee dies or terminates employment as a result of becoming totally and permanently disabled during the Performance Period ("Disability Termination"), the Awardee shall have paid to his or her estate or designated beneficiaries or, in the case of Disability Termination, either (i) him or her or (ii) his or her legally appointed guardian, after the end of the Performance Period, a payout based on the full amount of the specified percentage of the Target Award as determined pursuant to this Agreement and the Notice for the full Performance Period; (except that if such death, or Disability Termination occurs during the first 12 months of the Performance Period, the payout shall equal the Prorated Amount).

(c) If the Awardee voluntarily terminates employment during the Performance Period at such time as the sum of the Awardee's age and years of Service equals or exceeds 75 years and the Awardee has attained the minimum age of 60, the Awardee shall, after the end of the Performance Period, be entitled to receive his or her Stock Award payout based on the full amount of the specified percentage of the Target Award as determined pursuant to this Agreement and the Notice for the full Performance Period; except that, if such termination occurs during the first 12 months of the Performance Period, the payout shall equal the Prorated Amount. Notwithstanding the foregoing, if the Company receives an opinion of counsel that there has been a legal judgment and/or legal development in the Awardee's jurisdiction that would likely result in the favorable treatment applicable to the Stock Award pursuant to this Section 5(c) being deemed unlawful and/or discriminatory, then the Company will not apply the favorable treatment at the time of the Awardee's termination of Service, and the Awardee shall not be eligible to receive a payout.

(d) If the Awardee is demoted from the status as an officer or executive of the Company as defined in the Company's human resources system of record ("Officer" or "Executive") during the Performance Period, the Awardee shall, after the end of the Performance Period, be entitled to receive his or her Stock Award payout based on the full amount of the specified percentage of the Target Award as determined pursuant to this Agreement and the Notice for the full Performance Period; except that, if such demotion occurs during the first 12 months of the Performance Period, the payout shall equal the Prorated Amount.

(e) If the Awardee terminates employment at any time during the Performance Period under a Workforce Management Program or divestiture of the Company or its Subsidiary, the Awardee shall, after the end of the Performance Period, be entitled to receive his or her Stock Award payout based on the full amount of the specified percentage of the Target Award as determined pursuant to this Agreement and the Notice for the full Performance Period; except that,

if such termination of employment occurs during the first 12 months of the Performance Period, the payout shall equal the Prorated Amount.

(f) Notwithstanding Section 18(c) of the Plan, in the event of a Change of Control, the Awardee shall, as soon as practicable (and in all events within 74 days) after the earlier of (i) the end of the Performance Period or (ii) the date of such Change of Control, receive a Stock Award payout that is equivalent to the greater of the Target Award or the accrued amount of the payout (i.e., the amount accrued as the expected liability for the Stock Award by the Company's corporate finance department); except that, if such Change of Control occurs during the first 12 months of the Performance Period, the payout shall equal (a) the amount determined herein, multiplied by (b) a fraction, the numerator of which is the number of days from the beginning of the Performance Period to the date of such Change of Control, and the denominator of which is the number of days in the first 12 months of the Performance Period.

(g) "Prorated Amount" means the amount equal to the (a) the amount of the Award that the Awardee would have been entitled to receive had the Awardee remained employed with the Company as an Officer or Executive through the end of the Performance Period, as determined pursuant to this Agreement and the Notice, multiplied by (b) a fraction, the numerator of which is the number of days from the beginning of the Performance Period to the date of the Awardee's death, Disability Termination, termination of employment under a Workforce Management Program, termination of employment in accordance with Section 5(c) or demotion, as applicable, and the denominator of which is the number of days in the first 12 months of the Performance Period.

Section 6. Restrictions on Issuance of Shares. The Company shall not be obligated to issue any Shares pursuant to the Stock Award unless the Shares are at that time effectively registered or exempt from registration under the U.S. Securities Act of 1933, as amended, and, as applicable, local laws. Notwithstanding anything to the contrary herein, the Company shall not be obligated to issue any Shares pursuant to the Stock Award if such issuance violates or is not in compliance with any Applicable Laws.

Section 7. Responsibility for Taxes.

(a) The Awardee acknowledges that, regardless of any action the Company or, if different, the Awardee's employer (the "Employer") takes with respect to any or all income tax, social insurance, payroll tax, fringe benefits tax, payment on account or other tax-related withholding relating to the Awardee's participation in the Plan ("Tax-Related Items"), the ultimate liability for all Tax-Related Items legally due by the Awardee is and remains the Awardee's responsibility and may exceed the amount, if any, actually withheld by the Company or the Employer. The Awardee further acknowledges that the Company and/or the Employer (1) make no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Stock Award, including the grant, vesting (including on account of the Awardee's termination of employment described in Section 5(c)) and settlement of the Stock Award, the subsequent sale of Shares acquired pursuant to the Stock Award and the receipt of any dividends or other distributions, if any; and (2) do not commit to structure the terms of the grant or any aspect of the Stock Award to reduce or eliminate the Awardee's liability for Tax-Related Items. Further, if the Awardee is

subject to Tax-Related Items in more than one jurisdiction, the Awardee acknowledges that the Company and/or the Employer (or former employer, as applicable) may be required to withhold or account for Tax-Related Items in more than one jurisdiction.

(b) The Awardee authorizes the Company and/or the Employer to, in the sole discretion of the Company and/or the Employer, withhold all applicable Tax-Related Items legally payable by the Awardee from the Awardee's wages or other cash compensation paid to the Awardee by the Company and/or the Employer, within legal limits, or from proceeds of the sale of Shares. Alternatively, or in addition, if permissible under local law, the Company and/or the Employer may in its sole discretion (1) sell or arrange for the sale of Shares that Awardee acquires pursuant to the Stock Award to meet the withholding obligation for Tax-Related Items, and/or (2) withhold in Shares otherwise payable pursuant to the Stock Award, provided that the Company and/or the Employer only withholds the amount of Shares necessary to satisfy not more than the maximum withholding amount. If the obligation for Tax-Related Items is satisfied by withholding a number of Shares as described herein, for tax purposes, the Awardee is deemed to have been issued the full number of Shares subject to the vested/settled Stock Award, notwithstanding that a number of the Shares are held back solely for the purpose of paying the Tax-Related Items.

(c) Finally, the Awardee shall pay to the Company or the Employer any amount of Tax-Related Items that the Company or the Employer may be required to withhold as a result of the Awardee's participation in the Plan or the Awardee's acquisition of Shares pursuant to the Stock Award that is not satisfied by the means previously described. The Company may refuse to deliver the Shares if the Awardee fails to comply with the Awardee's obligations in connection with the Tax-Related Items as described in this section.

Section 8. Holding Period. Any Shares that are issued to the Awardee hereunder may not be sold, assigned, conveyed, gifted, pledged, hypothecated or otherwise transferred in any manner, other than by will or the laws of descent or distribution, until the first anniversary of the end of the Performance Period (or, if earlier, the date of the Awardee's death or Disability Termination or a Change of Control).

Section 9. Adjustment. The number of Shares subject to the Stock Award and the price per share, if any, of such Shares may be adjusted by the Company from time to time pursuant to the Plan.

Section 10. Nature of the Award. By accepting the Stock Award, the Awardee acknowledges that:

(a) the Plan is established voluntarily by the Company, it is discretionary in nature and it may be modified, amended, suspended or terminated by the Company at any time, unless otherwise provided in the Plan and this Award Agreement;

(b) the grant of the Stock Award is extraordinary, voluntary and occasional and does not create any contractual or other right to receive future grants of Stock Awards, or benefits in lieu of Stock Awards, even if Stock Awards have been granted in the past;

- (c) all decisions with respect to future Stock Awards, if any, will be at the sole discretion of the Company;
- (d) participation in the Plan shall not create a right to further employment with the Employer and shall not interfere with the ability of the Employer to terminate the Awardee's employment relationship at any time;
- (e) participating in the Plan is voluntary;
- (f) the Stock Award, the Shares underlying the Stock Award and the income from and value of same, are extraordinary items that do not constitute recurring or on-going compensation of any kind for services of any kind rendered to the Company or the Employer, and which are outside the scope of the Awardee's employment contract, if any;
- (g) the Stock Award, the Shares underlying the Stock Award and the income from and the value of same, are not part of normal or expected compensation or salary for any purposes, including, but not limited to, calculating any severance, resignation, termination, redundancy, end of service payments, bonuses, long-service awards, pension or retirement benefits or similar payments and in no event should be considered as compensation for, or relating in any way to, past services to the Company or the Employer;
- (h) unless otherwise agreed with the Company in writing, the Stock Award, the Shares underlying the Stock Award and the income from and value of same, are not granted as consideration for, or in connection with, the Service the Awardee may provide as a director of an Affiliate or Subsidiary of the Company;
- (i) in the event the Awardee is not an employee of the Company, the Stock Award will not be interpreted to form an employment contract or relationship with the Company; and furthermore, the Stock Award will not be interpreted to form an employment contract with the Employer or any subsidiary or affiliate of the Company;
- (j) the future value of the underlying Shares is unknown, indeterminable and cannot be predicted with certainty, and the Company makes no representation regarding such future value and is not responsible for any decrease in value or any foreign exchange fluctuations between the Awardee's local currency and the United States Dollar that may affect such value;
- (k) if the Awardee accepts the Stock Award and obtains Shares, the value of those Shares acquired may increase or decrease in value;
- (l) no claim or entitlement to compensation or damages shall arise from termination of the Stock Award or diminution in value of the Stock Award or Shares acquired under the Stock Award resulting from termination of the Awardee's employment by the Company or the Employer;
- (m) by accepting the grant of the Stock Award through the methods described in Section 24 below, the Awardee and the Company agree that the Stock Award is granted under and governed by the terms and conditions of the Plan and this Award Agreement (including

the Country-Specific Addendum), and the Awardee acknowledges that he or she agrees to accept as binding, conclusive and final all decisions or interpretations of the Company and/or the External Administrator regarding any questions relating to the Plan and this Award Agreement;

(n) this Award Agreement is between the Awardee and the Company, and that the Awardee's local employer is not a party to this Award Agreement;

(o) Applicable Laws (including any rules or regulations governing securities, foreign exchange, tax, labor or other matters) of the country in which the Awardee is residing or working at the time of grant or vesting of the Stock Award or the sale of Shares may subject the Awardee to additional procedural or regulatory requirements that the Awardee solely is responsible for and must independently fulfill in relation to ownership or sale of such Shares;

(p) the ownership of Shares or assets and the holding of a bank or brokerage account may subject the Awardee to reporting requirements imposed by tax, banking, and/or other authorities in the Awardee's country, that the Awardee solely is responsible for complying with such requirements, and that any cross-border cash remittance made to transfer of proceeds received upon the sale of Shares must be made through a locally authorized financial institution or registered foreign exchange agency and may require the Awardee to provide to such entity certain information regarding the transaction; and

(q) the Company reserves the right to impose other requirements or terms and conditions (which may be set forth in but are not limited to the Country-Specific Addendum hereto) on the Awardee's participation in the Plan, the Stock Award and any Shares acquired thereunder, to the extent the Company determines it is necessary or advisable for legal or administrative reasons.

Section 11. Data Privacy. *The Awardee explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of the Awardee's personal data as described in this document by and among, as applicable, the Company, the Employer and the External Administrator for the exclusive purpose of implementing, administering and managing the Awardee's participation in the Plan.*

The Awardee hereby understands that the Company and the Employer hold certain personal information about the Awardee, including, but not limited to, the Awardee's name, home address and telephone number, email address, date of birth, social insurance, passport or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, canceled, exercised, vested, unvested or outstanding in the Awardee's favor, for the purpose of implementing, administering and managing the Plan ("Data"). The Awardee hereby understands that Data may be transferred to any third parties (including the External Administrator) assisting in the implementation, administration and management of the Plan, that these recipients may be located in the Awardee's country or elsewhere, such as outside the European Economic Area, and that the recipient's country may have different data privacy laws and protections than the Awardee's country. All such transfers of Data will be in accordance with the Company's Privacy Policies and Guidelines. The Awardee hereby understands that the Awardee may request a list with the names and addresses of any potential recipients of the Data

by contacting the Awardee's local human resources representative. The Awardee authorizes the recipients to receive, possess, use, retain and transfer the Data, in electronic or other form, for the purposes of implementing, administering and managing the Awardee's participation in the Plan, including any requisite transfer of such Data as may be required to a broker or other third party with whom the Awardee may elect to deposit any Shares acquired upon vesting of the Stock Award. The Awardee hereby understands that the Awardee may, at any time, view Data, request information about the storage and processing of Data, and require any necessary amendments to Data. Further, the Awardee understands that he or she is providing the consents herein on a purely voluntary basis. If the Awardee does not consent, or if he or she later seeks to revoke his or her consent, his or her employment status or service with the Employer will not be affected by reason of his or her refusal to consent; the only consequence of refusing or withdrawing the Awardee's consent is that the Company would not be able to grant Stock Awards or other equity awards to the Awardee or administrator or maintain such awards. Therefore, the Awardee understands that refusing or withdrawing his or her consent may affect his or her ability to participate in the Plan. For more information on the consequences of the Awardee's refusal to consent or withdrawal of consent, the Awardee understands that he or she may contact his or her human resources representative responsible for the Awardee's country at the local or regional level.

Finally, upon request of the Company or the Employer, the Awardee agrees to provide an executed data privacy consent form (or any other agreements or consents that may be required by the Company and/or the Employer) that the Company and/or the Employer may deem necessary to obtain from the Awardee for the purpose of administering the Awardee's participation in the Plan in compliance with the data privacy laws in his or her country, either now or in the future. The Awardee understands and agrees that he or she will not be able to participate in the Plan if he or she fails to provide any such consent or agreement requested by the Company and/or the Employer.

Section 12. No Rights Until Issuance. The Awardee shall have no rights hereunder as a shareholder with respect to any Shares subject to the Stock Award until the date that Shares are issued to the Awardee. The Committee in its sole discretion may substitute a cash payment in lieu of Shares, such cash payment to be equal to the Fair Market Value of the Shares on the date that such Shares would have otherwise been issued under the terms of the Plan and this Award Agreement.

Section 13. Administrative Procedures. The Awardee agrees to follow the administrative procedures that may be established by the Company and/or its designated broker for participation in the Plan which may include a requirement that the Shares issued hereunder be held by the Company's designated broker until the Awardee disposes of such Shares. The Awardee further agrees that the Company may determine the actual method of withholding for Tax-Related Items as described in Section 7 above. The Awardee agrees to update the Company with respect to the Awardee's home address, contact information and any information necessary for the Company or one of its affiliates to process any required tax withholding or reporting related to the Stock Award.

Section 14. Governing Law and Venue. This Award Agreement shall be governed by and construed according to the laws of the State of Delaware without regard to its principles of

conflicts of laws as provided in the Plan. Any proceeding arising out of or relating to this Award Agreement or the Plan may be brought only in the state or federal courts located in the Northern District of California where this grant is made and/or to be performed, and the parties to this Award Agreement consent to the exclusive jurisdiction of such courts.

Section 15. Amendment. The Stock Award may be amended as provided in the Plan.

Section 16. Language. By electing to accept this Award Agreement, the Awardee acknowledges that he or she is sufficiently proficient in English, or has consulted with an advisor who is sufficiently proficient in English so as to allow the Awardee to understand the terms and conditions of this Award Agreement. Further, if the Awardee has received this or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.

Section 17. Electronic Delivery and Acceptance. The Company may, in its sole discretion, decide to deliver any documents related to current or future participation in the Plan by electronic means. The Awardee hereby consents to receive such documents by electronic delivery and agrees to participate in the Plan through an on-line or electronic system established and maintained by the Company or a third party designated by the Company.

Section 18. Severability. The provisions of this Award Agreement are severable and if any one or more provisions are determined to be illegal or otherwise unenforceable, in whole or in part, the remaining provisions shall nevertheless be binding and enforceable.

Section 19. Recoupment. The Stock Award is subject to the terms of the Agilent Technologies Executive Compensation Recoupment Policy in the form approved by the Committee as of the Grant Date (the "Policy"), if and to the extent that the Policy by its terms applies to the Stock Award and the Awardee; and the terms of the Policy as of the Grant Date are incorporated by reference herein and made a part hereof.

Section 20. Section 409A of the Code.

(a) The Stock Award shall be administered, interpreted, and construed in a manner that is intended to avoid the imposition on the Awardee of any additional tax, penalty, or interest under Section 409A of the Code. The preceding provision, however, shall not be construed as a guarantee of any particular tax effect and the Company shall not be liable to the Awardee for any payment made under the Stock Award that is determined to result in an additional tax, penalty, or interest under Section 409A of the Code, nor for reporting in good faith any payment made under the Stock Award as an amount includible in gross income under Section 409A of the Code.

(b) "Termination of employment," "resignation," or words of similar import, as used in the Stock Award means for purposes of payments under the Stock Award that are payments of deferred compensation subject to Section 409A of the Code as to which the payment event is such term or words, the Awardee's "separation from service" as defined in Section 409A of the Code.

(c) To the extent any payment or settlement hereunder that is a payment of deferred compensation subject to Section 409A of the Code is contingent upon a "change in control," such

payment or settlement shall only occur if the event giving rise to the change in control would also constitute a change in ownership or effective control of the Company, or a change in the ownership of a substantial portion of the assets of the Company, within the meaning of Section 409A of the Code. The vesting of the Stock Award shall not be affected by the preceding sentence.

(d) If a payment obligation under the Stock Award arises on account of the Awardee's separation from service while the Awardee is a "specified employee" (as defined in Section 409A of the Code), any payment of "deferred compensation" (as defined under Treasury Regulation Section 1.409A-1(b)(1), after giving effect to the exemptions in Treasury Regulation Sections 1.409A-1(b)(3) through (b)(12)) that is scheduled to be paid within six months after such separation from service shall accrue without interest and shall be paid within 15 days after the end of the six-month period beginning on the date of such separation from service or, if earlier, within 15 days after the Awardee's death.

Section 21. Insider Trading / Market Abuse Laws. The Awardee may be subject to insider trading restrictions and/or market abuse laws based on the exchange on which the Shares are listed and in applicable jurisdictions including the United States and the Awardee's country or his or her broker's country, if different, which may affect the Awardee's ability to accept, acquire, sell or otherwise dispose of Shares, rights to Shares (e.g., Stock Awards) or rights linked to the value of Shares (e.g., dividend equivalents) during such times as the Awardee is considered to have "inside information" regarding the Company (as defined by the laws in applicable jurisdictions). Local insider trading laws and regulations may prohibit the cancellation or amendment of orders the Awardee placed before he or she possessed inside information. Furthermore, the Awardee could be prohibited from (i) disclosing the inside information to any third party, which may include fellow employees and (ii) "tipping" third parties or causing them otherwise to buy or sell securities. Any restrictions under these laws or regulations are separate from and in addition to any restrictions that may be imposed under any applicable insider trading policy of the Company. The Awardee acknowledges that it is the Awardee's responsibility to comply with any applicable restrictions and the Awardee should speak with his or her personal legal advisor on this matter.

Section 22. Foreign Asset/Account Reporting; Exchange Control. The Awardee's country may have certain foreign asset and/or account reporting requirements and/or exchange controls which may affect the Awardee's ability to acquire or hold Shares under the Plan or cash received from participating in the Plan (including from any dividends received or sale proceeds arising from the sale of Shares) in an account outside the Awardee's country. The Awardee may be required to report such accounts, assets or transactions to the tax or other authorities in his or her country. The Awardee also may be required to repatriate sale proceeds or other funds received as a result of Awardee's participation in the Plan to his or her country through a designated bank or broker and/or within a certain time after receipt. The Awardee acknowledges that it is his or her responsibility to comply with such regulations, and the Awardee should consult his or her personal legal advisor for any details.

Section 23. Entire Agreement. The Plan is incorporated herein by reference. The Plan, this Award Agreement and the Notice (including the Country-Specific Addendum attached hereto) constitute the entire agreement of the parties with respect to the subject matter hereof and supersede in their entirety all prior undertakings and agreements of the Company and the Awardee with respect

to the subject matter hereof, and may not be modified adversely to the Awardee's interest except by means of a writing signed by the Company and the Awardee.

Section 24. Acceptance and Rejection. This Award Agreement is one of the documents governing the Stock Award, which the Awardee may accept or reject online through the External Administrator's website. If the Awardee has not rejected the Stock Award by the time of the first vesting event, the Awardee will be deemed to have accepted the Stock Award, and the Shares vested pursuant to the Stock Award will be issued and taxed accordingly.

Section 25. Country-Specific Addendum. Notwithstanding any provision herein, the Awardee's participation in the Plan shall be subject to any special terms and conditions as set forth in the Country-Specific Addendum for the Awardee's country of residence, if any. Moreover, if the Awardee relocates to one of the countries included in the Country-Specific Addendum, the special terms and conditions will apply to the Awardee, to the extent the Company determines that the application of such terms and conditions is necessary or advisable for legal or administrative reasons. The Country-Specific Addendum constitutes part of this Award Agreement.

AGILENT TECHNOLOGIES, INC.

By:

Mike McMullen
President and Chief Executive Officer

COUNTRY-SPECIFIC ADDENDUM

ADDITIONAL TERMS AND CONDITIONS OF THE AGILENT TECHNOLOGIES, INC. 2018 STOCK PLAN STANDARD STOCK AWARD AGREEMENT FOR NON-U.S. EMPLOYEES

This Country-Specific Addendum includes additional terms and conditions that govern the Stock Award granted to the Awardee under the Plan if the Awardee resides in one of the countries listed herein. Certain capitalized terms used but not defined in this Country-Specific Addendum have the meanings set forth in the Plan and/or the Award Agreement.

This Country-Specific Addendum also includes information regarding exchange controls and certain other issues of which the Awardee should be aware with respect to the Awardee's participation in the Plan. The information is based on the securities, exchange control and other laws in effect in the respective countries as of March 2018. Such laws are often complex and change frequently. As a result, the Company strongly recommends that the Awardee not rely on the information in this Country-Specific Addendum as the only source of information relating to the consequences of the Awardee's participation in the Plan because the information may be out of date at the time that the Awardee vests in the Stock Award or sells Shares acquired under the Plan.

In addition, the information contained herein is general in nature and may not apply to the Awardee's particular situation, and the Company is not in a position to assure the Awardee of a particular result. Accordingly, the Awardee should seek appropriate professional advice as to how the relevant laws in the Awardee's country may apply to his or her situation.

Finally, if the Awardee is a citizen or resident of a country other than the one in which the Awardee is currently working, transfers employment and/or residency after the Stock Award is granted, or is considered a resident of another country for local law purposes, the notifications contained herein may not apply to him or her and the Company shall, in its discretion, determine to what extent the terms and conditions contained herein shall be applicable to the Awardee.

COUNTRY-SPECIFIC LANGUAGE

Below please find country specific language that applies to Awardees in the following countries: Australia, Brazil, Canada, China, Denmark, France, Hong Kong, Israel, Italy, Japan, Malaysia, Mexico, New Zealand, Russia, Spain, Singapore, South Korea, Switzerland, Taiwan and the United Kingdom, with the exception of the Europe Data Privacy Notice which applies to Awardees in Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Spain, Sweden and the United Kingdom.

EUROPE DATA PRIVACY NOTICE

These provisions replace Section 11 of the Award Agreement for the following countries only: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Spain, Sweden and the United Kingdom.

This Notice details the personal data that Agilent Technologies Inc, (“**Company**”, “**we**”, “**us**” or “**our**”) receives about the Awardee, how we process it and the Awardee's rights and obligations in relation to the personal data collected in the context of this Award Agreement and the implementing, administering and managing of the Awardee's participation in the Plan.

The Company is the data controller for the purposes of the General Data Protection Regulation (GDPR) and any relevant local legislation (the “**Data Protection Laws**”). The Company can be contacted at 5301 Stevens Creek Boulevard, Santa Clara, CA 95051, United States.

The Awardee may contact our Data Protection Officer for all data privacy inquiries and any questions or concerns in relation to this Notice at:

E-mail: data-protection.officer@agilent.com

Phone: +44 131 452 0725

Post: 5 Lochside Avenue, Edinburgh EH12 9DJ, United Kingdom.

What information does the Company collect about the Awardee?

The Company and as applicable, the Employer, and any Subsidiary or Affiliate, will collect the following personal data about the Awardee for the purpose of implementing, administering and managing the Awardee's participation in the Plan, so that the Company can perform its contractual obligations related to the implementation, administration and management of the Plan:

- personal information such as: the Awardee's name, residence address, date of birth, hire date, work email, work phone number, division code, location code, date of employment termination, and employee identification number;
- contact information such as: home address and telephone number; and
- financial information such as: any Shares or directorships held in the Company or any Subsidiary or Affiliate, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, canceled, exercised, vested, unvested or outstanding in the Awardee's favor.

The Awardee also understands that providing the Company with all of the personal data listed above is necessary for the performance of the Plan and that the Awardee's denial to provide such personal data would make it impossible for the Company to perform its contractual obligations and may affect the Awardee's ability to participate in the Plan.

We receive information about the Awardee directly, as well as from other sources including the Awardee's Employer.

The Awardee's personal data will be retained by the Company in accordance with the time periods and in the format specified in the General Retention Schedule.

In the following circumstances, the Awardee's personal data may be retained for longer than the specified periods:

- as required by law or court order; and
- as needed to defend or pursue legal claims.

The Awardee understands that personal data processing related to the purposes specified above shall take place under non-automated conditions, that comply with the purposes for which personal data is collected and with confidentiality and security provisions as set forth by the Data Protection Laws.

Disclosure of the Awardee's Personal Data and Transfers Overseas

Disclosures and transfers within the Company

The personal data that we collect from the Awardee will be transferred to, and stored at/processed in the USA by the Company so that the Company can perform its contractual obligations related to the implementation, administration and management of the Plan.

Where personal data is received from the Awardee's Employer or transferred to other Agilent group companies, we rely on the Commission's model contracts for the transfer of personal data to third countries (i.e., the standard contractual clauses), pursuant to Decisions 2004/915/EC and 2010/87/EU. Please contact our Data Protection Officer should you wish to examine the intra-group standard data protection clauses entered into by the Company.

The Company takes all necessary security and legal precautions to ensure the safety and integrity of personal data that is transferred within its group.

Disclosures and transfers to third parties

The Awardee's personal data will, in certain circumstances, be disclosed to third parties for the purposes described above. The only third-party recipient of such personal data is Fidelity, the administrator of the Plan for the purposes of administering and managing the Awardee's participation in the Plan.

Where the Company is under an obligation to do so by law, it will disclose the Awardee's personal data to regulators, courts, the police or tax authorities, or in the course of litigation. In some cases, in accordance with applicable law, it may not be possible to notify the Awardee in advance about the details of such disclosures. The Company will use all reasonable efforts to disclose the minimum personal data necessary in such cases.

The Awardee's rights in relation to their Personal Data held by the Company

The Awardee has certain rights in relation to their personal data that we hold. Some of these only apply in certain circumstances as set out in more detail below. We also set out how to exercise those rights. Please note that we will require the Awardee to verify their identity before we respond to any such requests, by providing us with two forms of identification: one from List A; and one from List B.

List A	List B
Valid Passport.	Recent utility bill showing data subject's current home address (no more than 3 months' old).
Valid Photo Driving Licence.	Recent Bank or Building Society Statement (no more than 3 months' old).

To exercise any of these rights, unless otherwise stated, please email data-protection.officer@agilent.com to receive the Data Subject Request Form which must be returned to the [Data Protection Officer](#). We must respond to a request by the Awardee to exercise those rights without undue delay and at least within one (1) month (although this may be extended by a further two (2) months in certain circumstances).

The Awardee has the following rights in relation to their personal data:

Access: to access the personal data held by the Company about the Awardee and certain information about how we use it and who we share it with – the Awardee's right of access can be exercised by filling out the form referenced above and submitting it to data-protection.officer@agilent.com;

Portability: in certain circumstances, to receive or ask us to provide their personal data to a third party in a structured, commonly used and machine-readable format, although we will not provide the Awardee with certain personal data if to do so would interfere with another's individual's rights (e.g. where providing the personal data we hold about the Awardee would reveal information about another person) or where another exemption applies (we can only do so where it is technically feasible; we are not responsible for the security of the personal data or its processing once received by the third party);

Correction: to correct any personal data held about the Awardee that is inaccurate and have incomplete data completed (including by the provision of a supplementary statement). Where the Awardee requests correction, please explain in detail why the personal data we hold about the Awardee is inaccurate or incomplete so that we can assess whether a correction is required. Please note that while we assess whether the personal data we hold about the Awardee is inaccurate or incomplete, the Awardee may exercise their right to restrict our processing of the applicable data as described below. Where we agree that the personal data is inaccurate or incomplete, we will try to tell any third party to whom we have disclosed the relevant data so that they can rectify the data, as well;

Please note that the Awardee can update and correct their personal data through the following self-service portals:

- the Meidas portal at <https://meidas.hr.agilent.com/>. Here the Awardee can update their personal information such as home and work addresses, names, birth dates, telephone numbers, email, and tax ID numbers.
- the Fidelity NetBenefits portal at <https://nb.fidelity.com/public/nb/default/home>. Here the Awardee can update their contribution withholding rates or request to withdraw from the ESPP.

Erasure: that we erase the personal data held about the Awardee in the following circumstances:

- the Awardee believes that it is no longer necessary for us to hold the personal data the we hold about the Awardee; or
- the Awardee believes the personal data the we hold about the Awardee is being unlawfully processed by us;

Also note that the Awardee may exercise their right to restrict our processing of the Awardee's personal data whilst we consider the Awardee's request. Please provide as much detail as possible on the reasons for the request to assist us in determining whether the Awardee has a valid basis for erasure. We will retain the personal data if there are valid grounds under law for us to do so (e.g., for the defence of legal claims or freedom of expression) but we will let you know if that is the case.

Restriction of Processing to Storage Only: to require us to stop processing the personal data we hold about the Awardee other than for storage purposes in certain circumstances. Please note, however, that if we stop processing their personal data, we may use it again if there are valid grounds under the Data Protection Laws for us to do so (e.g. for the defence of legal claims or for another's protection). Where we agree to stop processing the personal data, we will try to tell any third party to whom we have disclosed the relevant personal data so that they can stop processing the data, as well. The Awardee may request that we stop processing and just store the personal data held about the Awardee where:

- the Awardee believes the personal data is not accurate for the period it takes for us to verify whether the data is accurate;
- we wish to erase the personal data as the processing we are doing is unlawful but the Awardee wants us to simply restrict the use of that data; or
- we no longer need the personal data for the purposes of the processing but the Awardee requires us to retain the data for the establishment, exercise or defence of legal claims.

In the event that the Awardee wishes to make a complaint about how we process the Awardee's personal data, please use the above email address and we will endeavour to deal with such requests as soon as possible. This is without prejudice to the Awardee's right to launch a claim with the relevant data protection authority.

The Awardee's obligations in relation to Personal Data

It is important that changes in the Awardee's personal circumstances are updated as soon as possible by making changes directly through the Meidas and Fidelity NetBenefits portals, as stated above in the section entitled 'The Awardee's rights in relation to their Personal Data held by the Company'.

Changes to this Notice

This Notice may be amended from time to time at the Company's discretion. The Awardee will be notified of any changes to this Notice.

AUSTRALIA

Offer Document. The Stock Award is intended to comply with the provisions of the Corporations Act 2001, Australian Securities and Investments Commission ("ASIC") Regulatory Guide 49 and ASIC Class Order CO 14/1000. Additional details are set forth in the Australian Offer Document, which is provided to Awardees along with this Award Agreement.

Tax Information. Subdivision 83A-C of the Income Tax Assessment Act, 1997, applies to Stock Awards granted under the Plan, such that the Stock Awards are intended to be subject to deferred taxation.

BRAZIL

Compliance with Law. By accepting the Stock Award, the Awardee acknowledges his or her agreement to comply with applicable Brazilian laws and to report and pay any and all applicable taxes associated with the Stock Award, the receipt of any dividends and the sale of Shares acquired under the Plan.

Nature of the Award. This provision supplements Section 10 (Nature of the Award) of the Award Agreement.

By participating in the Plan, the Awardee acknowledges, understands and agrees that (i) the Awardee is making an investment decision, (ii) Shares will be issued to the Awardee only if he or she remains in Service through each vesting date, and (iii) the value of the Shares is not fixed and may increase or decrease in value without compensation to the Awardee.

CANADA

Stock Awards Settled in Shares Only. Notwithstanding anything to the contrary in the Plan and/or the Award Agreement, the Awardee understands that any Stock Awards granted to the Awardee shall be paid in Shares only and do not provide any right for the Awardee to receive a cash payment.

The following provision will apply to residents of Quebec:

Language Consent. The parties acknowledge that it is their express wish that the Award Agreement, as well as all documents, notices, and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English.

Les parties reconnaissent avoir exigé la rédaction en anglais de cette convention, ainsi que de tous documents, avis et procédures judiciaires, exécutés, donnés ou intentés en vertu de, ou liés directement ou indirectement à la présente convention.

Additional Restrictions on Resale. In addition to the restrictions on resale and transfer noted in Plan materials, securities purchased under the Plan may be subject to certain restrictions on resale imposed by Canadian provincial securities laws. The Awardees are encouraged to seek legal advice prior to any resale of such securities. In general, Awardees resident in Canada may resell their securities in transactions carried out on exchanges outside of Canada.

Form of Payment. Due to legal restrictions in Canada and notwithstanding any language to the contrary in the Plan, grantees are prohibited from surrendering Shares that they already own or from attesting to the ownership of Shares to pay any Tax-Related Items in connection with the Stock Award granted.

CHINA

SAFE Compliance. It is intended that the Award Agreement and the Plan comply with any applicable requirements of the State Administration of Foreign Exchange (“SAFE”) in China. The Award Agreement and the Plan shall be administered in a manner consistent with this intent, and any provision that would cause the Award Agreement or the Plan to fail to meet with SAFE approval shall have no force and effect until amended to comply with SAFE requirements. The Awardee agrees in advance to any such required amendment.

Repatriation Requirement. All proceeds received upon the sale of Shares and dividends that an Awardee may receive under the Stock Award must be immediately repatriated to China. The Awardee understands and agrees that all proceeds from the Stock Award will first be sent to the designated SAFE bank account of the Company. Further, if the proceeds are converted to local currency, the Awardee acknowledges that the Company (including its Subsidiaries) are under no obligation to secure any currency conversion rate, and may face delays in converting the proceeds to local currency and transferring the proceeds to the Awardee due to exchange control and/or other regulatory restrictions in China. The Awardee agrees to bear the risk of any currency conversion rate fluctuation between the date that sale proceeds are delivered to the special bank account and the date of conversion of the proceeds to local currency. The Awardee further agrees to comply with any other requirements that may be imposed by the Company in the future in order to facilitate compliance with exchange control requirements in China.

Termination of Employment or Service. Notwithstanding anything to the contrary in the Plan or the Award Agreement, the Awardee agrees that upon the termination of the Awardee’s Service in China, the Company may sell any Shares acquired pursuant to the Stock Award not later than 90 calendar days after the termination date (or such other period as may be required by SAFE). The Awardee authorizes the Company’s designated broker to sell such Shares on Awardee’s behalf at such time as determined by the Company, in its sole discretion, or as soon as is administratively practical thereafter. The Awardee further agrees that the Company is authorized to instruct its designated broker to assist with the mandatory sale of the Shares (on the Awardee’s behalf pursuant to this authorization), and the Awardee expressly authorizes such broker to complete the sale of such Shares. The Awardee acknowledges that the Company’s designated broker is

under no obligation to arrange for the sale of Shares at any particular price. Upon the sale of the Shares, the Company agrees to pay the cash proceeds from the sale, less any brokerage fees or commissions, to the Awardee in accordance with applicable exchange control laws and regulations and provided any liability for Tax-Related Items has been satisfied.

DENMARK

Termination of Employment or Service. This provision supplements Section 5 of the Award Agreement.

Notwithstanding anything in the Plan or the Award Agreement to the contrary, if an Awardee's employment terminates for any reason other than a termination by the Company for breach, any unvested Stock Award will continue to vest depending upon the achievement of the Performance Criteria as solely determined by the Committee in accordance with Section 2. In the event that the Awardee resigns his or her Service or is terminated for breach by the Company or one of its Subsidiaries or Affiliates during the Award Period, any unvested portion of the Stock Award shall be forfeited immediately as of the date of the Awardee's termination and the Awardee shall not be eligible to receive a payout except as set forth in another written agreement between the Awardee and the Company.

Additional Documents. A copy of the Employer Statement has also been provided to the Awardee in addition to this Award Agreement.

FRANCE

French-Qualified Stock Award. This Stock Award is intended to qualify for specific tax and social security treatment in France under Section L. 225-197-1 to L. 225-197-6-1 of the French Commercial Code, as amended (a "French-qualified" Stock Award). Certain events may affect the status of the Stock Award as French-qualified and the Stock Award may be disqualified in the future. The Company does not make any undertaking or representation to maintain the qualified status of the Stock Award. If the Stock Award no longer qualifies as a French-qualified Stock Award, the specific tax and social security treatment will not apply, and the Awardee will be required to pay his or her portion of social security contributions resulting from the Stock Award (as well as any income tax that is due).

Plan and French Plan Terms. The Stock Award is subject to the terms and conditions of the Plan and the Rules of the Agilent Technologies, Inc. 2018 Stock Plan for Stock Options and Restricted Stock Units Granted to Participants in France (the "French Plan"). To the extent that any term is defined in both the Plan and the French Plan, for purposes of this grant of a French-qualified Stock Award, the definitions in the French Plan shall prevail.

Performance Period. This provision supplements Section 2 of the Award Agreement:

Notwithstanding any discretion in the Plan or the Award Agreement, the payout of the Stock Award shall not occur prior to the second anniversary of the Grant Date unless the Awardee's employment terminates due to the Awardee's death.

Settlement in Shares. Notwithstanding any discretion in the Plan or the Award Agreement to settle the Stock Award in cash, the French-qualified Stock Award will be settled in Shares only. The Stock Award does not provide any right for Awardee to receive a cash payment.

Termination of Employer or Service. This provision supplements Section 5(b) of the Award Agreement:

Notwithstanding any provision in the Plan or the Award Agreement to the contrary, the Stock Award shall become fully transferable to the Awardee's heirs in the event of the Awardee's death prior to the payout of the Stock Award. The Awardee's heirs may request issuance of the underlying Shares within six months of the Awardee's death. The Company shall payout the Stock Award to the Awardee's heirs in accordance with Section 5 of the Award Agreement. If the Awardee's heirs do not request the issuance of the underlying Shares within six months of the Awardee's death, the Stock Award will be forfeited.

Restrictions on Sale of Shares. The Awardee may not sell or transfer the Shares issued pursuant to the Stock Award prior to the second anniversary of the Grant Date or such other period as is required to comply with the minimum mandatory holding period applicable to Shares underlying French-qualified awards under Section L. 225-197-1 of the French Commercial Code, the French Tax Code or the French Social Security Code, as amended. Notwithstanding the above, the Awardee's heirs, in case of the Awardee's death, or the Awardee in case of the Awardee's Disability (as defined under the French Plan), are not subject to this restriction on the sale of Shares.

If the Awardee qualifies as a managing director of the Company under French law ("*mandataires sociaux*" i.e., *Président du Conseil d'Administration, Directeur Général, Directeur Général Délégué, Membre du Directoire, Gérant de Sociétés par actions*), the Awardee is required to hold 20% of the Shares issued upon the vesting of the Stock Award in a nominative account under procedures implemented by the Company and is not permitted to sell or transfer the Shares until he or she ceases to serve as a managing director, as long as this restriction is a requirement under French law and unless law or regulations provide for a lower percentage (in which case these requirements apply to the lower percentage of Shares required to be held).

Any Shares acquired upon payout of the Stock Award may not be sold during certain Closed Periods as provided for and defined by Section L. 225-197-1 of the French Commercial Code, as amended, and by the French Plan, for so long as and to the extent that the Closed Periods are applicable to Shares underlying French-qualified Stock Awards granted by the Company.

No Recoupment. Section 19 of the Award Agreement shall not apply.

Consent to Receive Information in English. By accepting the Stock Award, Awardee confirms having read and understood the documents related to the Stock Award (the Plan as amended by the French Plan and this Award agreement) which were provided in the English language. Awardee accepts the terms of these documents accordingly.

Consentement Relatif à l'Utilisation de l'Anglais. En acceptant l'Attribution (« Stock Award »), le Bénéficiaire confirme avoir lu et compris les documents relatifs à l'Attribution (le Plan tel qu'amendé par le Plan pour la France et ce Contrat d'Attribution) qui ont été remis en anglais. Le Bénéficiaire accepte les termes de ces documents en connaissance de cause.

HONG KONG

Securities Law Notice. *Warning: The contents of this document have not been reviewed by any regulatory authority in Hong Kong. The Awardee should exercise caution in relation to the offer. If the Awardee is in any doubt about any of the contents of the Award Agreement, including this Country-Specific Addendum, or the Plan, the Awardee should obtain independent professional advice. Neither the grant of the Stock Awards nor the issuance of Shares upon vesting constitutes a public offering of securities under Hong Kong law and are available only to employees of the Company or its Subsidiaries or Affiliates. The Award Agreement, including this Country-Specific Addendum, the Plan and other incidental communication materials (i) have not been prepared in accordance with and are not intended to constitute a “prospectus” for a public offering of securities under the applicable securities legislation in Hong Kong and (ii) are intended only for the personal use of each eligible employee of the Company and its Subsidiaries and Affiliates and may not be distributed to any other person.*

Data Privacy. The following language is added to the end of Section 11 of the Award Agreement:

“The Data Protection Principles specified in Personal Data (Privacy) Ordinance (Chapter 486 of the Laws of Hong Kong) will apply to any Data upon its transfer to any location outside of Hong Kong.”

Additional Restrictions on Resale. In addition to the restrictions on resale and transfer noted in Plan materials, the Awardee agrees that, in the event that any portion of the Stock Award becomes vested and the Shares are issued prior to the six-month anniversary of the Grant Date, the Awardee will not sell any Shares acquired upon vesting / settlement of the Stock Award prior to the six-month anniversary of the Grant Date.

Stock Award Settled in Shares Only. Notwithstanding anything to the contrary in the Plan and/or the Award Agreement, the Awardee understands that any Stock Awards granted to the Awardee shall be paid in Shares only and do not provide any right for the Awardee to receive a cash payment.

ISRAEL

Shares must be held with the External Administrator. The Company has designated a third-party to provide administrative services in connection with the Plan (the “External Administrator”). Pursuant to its authority under the Plan, the Company will require that the Awardee hold any Shares issued to an Awardee in connection with the vesting of the Stock Award with the External Administrator until such time as the Awardee sells the Shares. Until the Awardee decides to sell the Shares issued pursuant to the vesting of the Stock Award, the Awardee cannot transfer the Shares to an account with another broker or request that share certificates be issued to the Awardee.

ITALY

Plan Document Acknowledgement. By accepting the Stock Award, the Awardee acknowledges that (a) the Awardee has received the Plan and this Award Agreement; (b) the Awardee has reviewed these documents in their entirety and fully understands the contents thereof; and (c) the Awardee accepts all provisions of

the Plan and this Award Agreement. The Awardee further acknowledges that the Awardee has read and specifically and expressly approves, without limitation, the following sections of this Award Agreement: “Performance Period”; “Committee Certification”; “Nontransferability of Stock Award”; “Termination of Employment or Service”; “Restrictions on Issuance of Shares”; “Responsibility for Taxes”; “Nature of the Award”; “Data Privacy” as replaced by the above provision; “No Rights Until Issuance”; “Governing Law and Venue”; “Language”; “Electronic Delivery and Acceptance”; “Recoupment”; and “Entire Agreement”.

JAPAN

No Recoupment. Section 19 of the Award Agreement shall not apply.

MALAYSIA

Data Privacy. This provision replaces Section 11 of the Award Agreement in its entirety.

The Awardee hereby explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of his or her personal data as described in this Award Agreement, including any Country-Specific Addendum attached hereto, and any other Plan participation materials by and among, as applicable, the Employer, the Company and its Subsidiaries and Affiliates or any third parties authorized by the same for the exclusive purpose of implementing, administering and managing the Awardee's participation in the Plan.

The Awardee may have previously provided the Company and the Employer with and the Company and the Employer may hold certain personal information about the Awardee, including, but not limited to, the Awardee's name, home address and telephone number, email address, date of birth, social insurance number, passport or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, cancelled, exercised, purchased, vested, unvested or outstanding in the Awardee's favor ("Data"), for the exclusive purpose of implementing, administering and managing the Plan.

the Awardee understands that Data will be transferred to the External Administrator or such other stock plan service provider as may be selected by the Company in the future, which is assisting the Company with the implementation, administration and management of the Plan and that Data may be transferred to certain other third parties assisting the Company with the implementation, administration and management of the Plan. The Awardee understands that these recipients may be located in the United States or elsewhere, and that the recipients' country (e.g., the United States) may have different data privacy laws and protections than the Awardee's country. The Awardee understands that the Awardee may request a list with the names and addresses of any potential recipients of Data by contacting the Awardee's local human resources representative. The Awardee authorizes the Company, the External Administrator and any other possible recipients which may assist the Company (presently or in the future) with implementing, administering and managing the Plan to receive, possess, use, retain and transfer Data, in electronic or other form, for the sole purpose of implementing, administering and managing the Awardee's participation in the Plan, including any requisite transfer of such Data as may be required to a broker or third party with whom the Awardee may elect to deposit any Shares acquired pursuant to the Awardee's participation in the Plan. The Awardee understands that Data will be held only as long as is necessary to implement, administer and manage the Awardee's participation in the Plan. The Awardee understands that the Awardee may, at any time, view Data, request

Penerima Anugerah dengan ini secara eksplisit dan tanpa sebarang keraguan mengizinkan pengumpulan, penggunaan dan pemindahan, dalam bentuk elektronik atau lain-lain, data peribadinya seperti yang dinyatakan dalam Perjanjian Penganugerahan ini, termasuklah apa-apa Lampiran khusus bagi negara yang dilampirkan di sini, dan apa-apa bahan penyertaan Pelan oleh dan di antara, sebagaimana yang berkenaan, Majikan, Syarikat dan Anak Syarikatnya dan Syarikat Sekutu atau mana-mana pihak ketiga yang diberi kuasa oleh yang sama untuk tujuan eksklusif bagi pelaksanaan, pentadbiran dan pengurusan penyertaan Penerima Anugerah dalam Pelan tersebut.

Sebelum ini, Penerima Anugerah mungkin telah membekalkan Syarikat dan Majikan dengan, dan Syarikat dan Majikan mungkin memegang, maklumat peribadi tertentu tentang Penerima Anugerah, termasuk, tetapi tidak terhad kepada, namanya, alamat rumah dan nombor telefon, alamat emel, tarikh lahir, nombor insurans sosial, pasport atau nombor pengenalan lain, gaji, kewarganegaraan, jawatan, apa-apa Syer atau jawatan pengarah yang dipegang dalam Syarikat, butir-butir semua Anugerah Saham atau apa-apa hak lain untuk Syer atau manfaat setaraf yang lain yang dianugerahkan, dibatalkan, dilaksanakan, dibeli, terletak hak, tidak diletak hak ataupun bagi faedah Penerima Anugerah ("Data"), untuk tujuan yang eksklusif bagi melaksanakan, mentadbir dan menguruskan Pelan tersebut.

Penerima Anugerah memahami bahawa Data akan dipindah kepada Pentadbir Luar atau pembekal perkhidmatan pelan saham lain yang mungkin dipilih oleh Syarikat pada masa depan, yang membantu Syarikat dalam melaksanakan, mentadbir dan menguruskan Pelan tersebut, dan Data mungkin boleh dipindahkan kepada pihak ketiga lain yang tertentu yang membantu Syarikat dengan pelaksanaan, pentadbiran, dan pengurusan Pelan. Penerima Anugerah memahami bahawa penerima-penerima ini mungkin berada di Amerika Syarikat atau di tempat lain, dan bahawa negara penerima (contohnya, Amerika Syarikat) mungkin mempunyai undang-undang privasi data dan perlindungan yang berbeza daripada negara Penerima Anugerah. Penerima Anugerah memahami bahawa Penerima Anugerah boleh meminta senarai dengan nama dan alamat mana-mana penerima Data yang berpotensi dengan menghubungi wakil sumber manusia tempatannya. Penerima Anugerah memberi kuasa kepada Syarikat, Pentadbir Luar dan mana-mana penerima lain yang mungkin membantu Syarikat (sama ada pada masa kini atau pada masa depan) untuk melaksanakan, mentadbir dan menguruskan Pelan tersebut untuk menerima, memiliki, menggunakan, mengekalkan dan memindahkan Data, dalam bentuk elektronik atau lain-lain, semata-matanya untuk melaksanakan, mentadbir dan menguruskan penyertaan Penerima Anugerah dalam Pelan tersebut, termasuk apa-apa pemindahan Data yang diperlukan kepada broker atau pihak ketiga dengan sesiapa yang dipilih oleh Penerima Anugerah untuk deposit apa-apa Saham yang diperolehi menurut penyertaannya dalam Pelan tersebut. Penerima Anugerah faham bahawa Data akan dipegang hanya

information about the storage and processing of Data, require any necessary amendments to Data or refuse or withdraw the consents herein, in any case without cost, by contacting his or her local human resources representative. Further, the Awardee understands that the Awardee is providing the consents herein on a purely voluntary basis. If the Awardee does not consent, or if the Awardee later seeks to revoke his or her consent, the Awardee's Service with the Employer will not be affected; the only consequence of refusing or withdrawing the Awardee's consent is that the Company would not be able to grant Stock Awards or other equity awards to the Awardee or administer or maintain such awards. Therefore, the Awardee understands that refusing or withdrawing his or her consent may affect the Awardee's ability to participate in the Plan. For more information on the consequences of the Awardee's refusal to consent or withdrawal of consent, Awardee understands that the Awardee may contact his or her local human resources representative.

untuk tempoh yang diperlukan untuk melaksanakan, mentadbir dan menguruskan penyertaannya dalam Pelan tersebut. Penerima Anugerah memahami bahawa Penerima Anugerah boleh, pada bila-bila masa, melihat data, meminta maklumat mengenai penyimpanan dan pemprosesan Data, meminta bahawa pindaan-pindaan dilaksanakan ke atas Data atau menolak atau menarik balik persetujuan dalam ini, dalam mana-mana kes, tanpa kos, dengan menghubungi wakil sumber manusia tempatannya. Selanjutnya, Penerima Anugerah memahami bahawa dia memberikan persetujuan di sini secara sukarela. Jika Penerima Anugerah tidak bersetuju, atau jika Penerima Anugerah kemudian membatalkan persetujuannya, perkhidmatan Penerima Anugerah dengan Majikan tidak akan terjejas; hanya satunya akibat jika dia tidak bersetuju atau menarik balik persetujuannya, iaitu, Syarikat tidak akan dapat memberikan Anugerah-anugerah Saham atau anugerah ekuiti lain kepada Penerima Anugerah atau mentadbir atau mengekalkan anugerah tersebut. Oleh itu, Penerima Anugerah memahami bahawa keengganan atau penarikan balik persetujuannya boleh menjejaskan keupayaannya untuk mengambil bahagian dalam Pelan tersebut. Untuk maklumat lanjut mengenai akibat keengganan Penerima Anugerah untuk memberikan keizinan atau penarikan balik keizinan, Penerima Anugerah memahami bahawa Penerima Anugerah boleh menghubungi wakil sumber manusia tempatannya.

Director Notification Requirement. If the Awardee is a director of a Malaysian Subsidiary or Affiliate of the Company, the Awardee is subject to certain notification requirements under the Malaysian Companies Act, 1965. Among these requirements is an obligation to notify the Malaysian Subsidiary or Affiliate in writing when the Awardee receives an interest (*e.g.*, Stock Award, Shares) in the Company or any related companies. In addition, the Awardee must notify the Malaysian Subsidiary or Affiliate when the Awardee sells Shares in the Company or any related company (including when the Awardee sells Shares acquired under the Plan). These notifications must be made within fourteen days of acquiring or disposing of any interest in the Company or any related company.

MEXICO

Labor Law Policy and Acknowledgment. In accepting the grant of the Stock Award, the Awardee expressly recognizes that Agilent Technologies, Inc., with registered offices at 5301 Stevens Creek Boulevard, Santa Clara, California 95051, United States of America, is solely responsible for the administration of the Plan and that the Awardee's participation in the Plan and acquisition of Shares do not constitute an employment

relationship between the Awardee and Agilent Technologies, Inc. since the Awardee is participating in the Plan on a wholly commercial basis and the Awardee's sole employer is Agilent Technologies Mexico, S. de R.L. de C.V., Av. Insurgentes Sur no. 1602, Suite 801, Mexico City, Mexico CP 03940 ("Agilent-Mexico"). Based on the foregoing, the Awardee expressly recognizes that the Plan and the benefits that the Awardee may derive from participating in the Plan do not establish any rights between the Awardee and the Employer, Agilent-Mexico, and do not form part of the employment conditions and/or benefits provided by Agilent-Mexico and any modification of the Plan or its termination shall not constitute a change or impairment of the terms and conditions of the Awardee's employment.

The Awardee further understands that his or her participation in the Plan is as a result of a unilateral and discretionary decision of Agilent Technologies, Inc.; therefore, Agilent Technologies, Inc. reserves the absolute right to amend and/or discontinue the Awardee's participation at any time without any liability to the Awardee.

Finally, the Awardee hereby declares that the Awardee does not reserve to himself or herself any action or right to bring any claim against Agilent Technologies, Inc. for any compensation or damages regarding any provision of the Plan or the benefits derived under the Plan, and the Awardee therefore grants a full and broad release to Agilent Technologies, Inc., its Affiliates, branches, representation offices, its shareholders, officers, agents or legal representatives with respect to any claim that may arise.

Reconocimiento de Ausencia de Relación Laboral y Declaración de la Política. Aceptando la Stock Award, el Participante reconoce que Agilent Technologies, Inc. y sus oficinas registradas en 5301 Stevens Creek Boulevard, Santa Clara, California 95051, U.S.A., es el único responsable de la administración del Plan y que la participación del Participante en el mismo y la compra de Acciones no constituye de ninguna manera una relación laboral entre el Participante y Agilent Technologies, Inc., toda vez que la participación del Participante en el Plan deriva únicamente de una relación comercial con Agilent Technologies, Inc., reconociendo expresamente que el único empleador del Participante lo es Agilent Technologies Mexico, S. de R.L. de C.V., Blvd. Av. Insurgentes Sur no. 1602, Suite 801, Mexico City, Mexico CP 03940 ("Agilent-México"). Derivado de lo anterior, el Participante expresamente reconoce que el Plan y los beneficios que pudieran derivar del mismo no establecen ningún derecho entre el Participante y su empleador, Agilent-México, y no forman parte de las condiciones laborales y/o prestaciones otorgadas por Agilent-México, y expresamente el Participante reconoce que cualquier modificación al Plan o la terminación del mismo de manera alguna podrá ser interpretada como una modificación de los condiciones de trabajo del Participante.

Asimismo, el Participante entiende que su participación en el Plan es resultado de la decisión unilateral y discrecional de Agilent Technologies, Inc., por lo tanto, Agilent Technologies, Inc. se reserva el derecho absoluto para modificar y/o terminar la participación del Participante en cualquier momento, sin ninguna responsabilidad para el Participante.

Finalmente, el Participante manifiesta que no se reserva ninguna acción o derecho que origine una demanda en contra de Agilent Technologies, Inc., por cualquier compensación o daño en relación con cualquier disposición del Plan o de los beneficios derivados del mismo, y en consecuencia el Participante otorga un amplio y total finiquito a Agilent Technologies, Inc., sus Entidades Relacionadas, afiliadas, sucursales, oficinas de representación, sus accionistas, directores, agentes y representantes legales con respecto a cualquier demanda que pudiera surgir.

NEW ZEALAND

Securities Law Notice. *Warning:* This is an offer of rights to receive Shares underlying the Stock Awards. Stock Awards give Awardees a stake in the ownership of the Company. The Awardee may receive a return if dividends are paid on the Shares.

If the Company runs into financial difficulties and is wound up, the Awardee will be paid only after all creditors and holders of preferred shares have been paid. The Awardee may lose some or all of his or her investment.

New Zealand law normally requires people who offer financial products to give information to investors before they invest. This information is designed to help investors to make an informed decision. The usual rules do not apply to this offer because it is made under an employee share scheme. As a result, the Awardee may not be given all the information usually required. The Awardee will also have fewer other legal protections for this investment.

The Awardee should ask questions, read all documents carefully, and seek independent financial advice before committing himself or herself.

The Shares are quoted or approved for trading on the New York Stock Exchange (“NYSE”). This means that, if the Awardee vests in Stock Awards and Shares are issued to the Awardee, the Awardee can sell his or her investment on the NYSE if there are buyers for it. If the Awardee sells his or her investment, the price he or she receives may vary depending on factors such as the financial condition of the Company. The Awardee may receive less than the full amount that he or she paid for it, if anything.

For information on risk factors impacting the Company’s business that may affect the value of the Shares, the Awardee should refer to the risk factors discussion in the Company’s Annual Report on Form 10-K and Quarterly Reports on Form 10-Q, which are filed with the U.S. Securities and Exchange Commission and are available online at www.sec.gov, as well as on the Company’s “Investor Relations” website at <http://investor.agilent.com>.

For more details on the terms and conditions of the Stock Awards, please refer to this Award Agreement, the Plan and the prospectus which are available on the External Administrators website and free of charge on request via email to agilent_globalequity@agilent.com.

As noted above, the Awardee should carefully read the materials provided before making a decision whether to participate in the Plan. The Awardee should also contact his or her tax advisor for specific information concerning Awardee’s personal tax situation with regard to Plan participation.

RUSSIA

Shares must be held with the External Administrator. The Company has designated a third-party to provide administrative services in connection with the Plan (the “External Administrator”). Pursuant to its authority under the Plan, the Company will require that the Awardee hold any Shares issued to Awardee in connection with the vesting of the Stock Award with the External Administrator until such time as the Awardee sells the Shares. Until the Awardee decides to sell the Shares issued pursuant to the vesting of the Stock Award, the Awardee cannot transfer the Shares to an account with another broker or request that share certificates be issued to the Awardee.

Securities Law Notice. The Award Agreement, the Stock Award, the Plan and all other materials the Awardee may receive regarding participation in the Plan do not constitute advertising or an offering of securities in Russia. The issuance of Shares under the Plan has not and will not be registered in Russia and, therefore, the Shares described in any Plan documents may not be offered or placed in public circulation in Russia.

In no event will Shares acquired upon vesting of the Stock Award be delivered to you in Russia; all Shares acquired upon vesting of the Stock Award will be maintained on the Awardee’s behalf outside of Russia.

The Awardee is not permitted to sell Shares directly to a Russian legal entity or resident.

Data Privacy. This provision replaces Section 11 of the Award Agreement:

“The Awardee explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of the Awardee’s personal data as described in this document by and among, as applicable, the Company, the Employer and the External Administrator as well as any of their respective Subsidiaries or Affiliates for the exclusive purpose of implementing, administering and managing the Awardee’s participation in the Plan.

The Awardee hereby understands that the Company and the Employer hold certain personal information about the Awardee, including, but not limited to, the Awardee’s name, home address and telephone number, email address, date of birth, social insurance, passport or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, canceled, exercised, vested, unvested or outstanding in the Awardee’s favor, for the purpose of implementing, administering and managing the Plan (“**Data**”). The Awardee hereby understands that Data may be transferred to any third parties (including the External Administrator) assisting in the implementation, administration and management of the Plan, that these recipients may be located in the Awardee’s country or elsewhere, such as the United States of America and/or other countries where cross-border transfer to which is not allowed by applicable law without the employee’s specific consent (i.e. based on the Russian legislation in force as at the date hereof, such countries include countries which are neither member states under the Convention on Protection of Individuals with regard to Automatic Processing of Personal Data 1981 nor listed by the Russian Data Protection Authority (the Russian Federal Service for Supervision in Communications, Information Technology and Mass Media, or Roscomnadzor or replacement authority as countries with the adequate data protection mechanisms), and that the recipient’s country may have different data privacy laws and protections than the Awardee’s country. All such transfers of Data will be in

accordance with the Company's Privacy Policies and Guidelines. The Awardee hereby understands that the Awardee may request a list with the names and addresses of any potential recipients of the Data and any other information on his or her personal data and their processing in accordance with applicable law by contacting the Awardee's local human resources representative. The Awardee authorizes the recipients to receive, possess, use, retain and transfer the Data, in electronic or other form, for the purposes of implementing, administering and managing the Awardee's participation in the Plan, including any requisite transfer (including cross-border transfer as set out above) of such Data as may be required to a broker or other third party with whom the Awardee may elect to deposit any Shares acquired upon vesting of the Stock Award. The Awardee hereby understands that the Awardee may, at any time, view and obtain a copy of Data, request information about the storage and processing of Data, require any necessary amendments to Data. Further, the Awardee understands that he or she is providing the consents herein on a purely voluntary basis. If the Awardee does not consent, or if he or she later seeks to revoke his or her consent, his or her employment status or service with the Employer will not be affected by reason of his or her refusal to consent; the only consequence of refusing or withdrawing the Awardee's consent is that the Company would not be able to grant Stock Awards or other equity awards to the Awardee or administrator or maintain such awards. Therefore, the Awardee understands that refusing or withdrawing his or her consent may affect his or her ability to participate in the Plan. For more information on the consequences of the Awardee's refusal to consent or withdrawal of consent, the Awardee understands that he or she may contact his or her human resources representative responsible for the Awardee's country at the local or regional level.

Finally, the Awardee agrees to promptly provide an executed (in paper or other form as may be requested by the Company and/or the Employer) data privacy consent form (and/or, in addition to the said consent form, any other agreements and/or consents) that the Company and/or the Employer may deem necessary to obtain from the Awardee for the purpose of administering the Awardee's participation in the Plan in compliance with the data privacy laws in his or her country, either now or in the future. The Awardee understands and agrees that he or she will not be able to participate in the Plan if he or she fails to provide any such consent or agreement requested by the Company and/or the Employer.

SINGAPORE

Additional Restrictions on Resale. In addition to the restrictions on resale and transfer noted in Plan materials, the Awardee agrees that, in the event that any portion of the Stock Award becomes vested and the Shares are issued prior to the six-month anniversary of the Grant Date, the Awardee will not sell any Shares acquired upon vesting / settlement prior to the six-month anniversary of the Grant Date, unless such sale or offer is made pursuant to the exemption under Part XIII Division I Subdivision (4) (other than section 280) of the Securities and Futures Act (Chap. 289, 2006 Ed.) ("SFA").

Securities Law Notice. The grant of the Stock Award is being made pursuant to the "Qualifying Person" exemption" under section 273(1)(f) of the SFA and is not made with a view to the Shares being subsequently offered for sale to any other party. The Plan has not been lodged or registered as a prospectus with the Monetary Authority of Singapore.

CEO / Director Notification Requirement. If the Awardee is the Chief Executive Officer (“CEO”) or a director, associate director or shadow director of a Singapore Subsidiary or Affiliate he or she is subject to certain notification requirements under the Singapore Companies Act, regardless of whether he or she is a Singapore resident or employed in Singapore. Among these requirements is the obligation to notify the Singapore Subsidiary or Affiliate in writing of an interest (e.g., Stock Award, Shares, etc.) in the Company or any related companies within two days of (i) its acquisition or disposal, (ii) any change in a previously disclosed interest (e.g., when the Shares are sold), or (iii) becoming the CEO or a director.

Data Privacy. This provision replaces Section 11 of the Award Agreement:

The Awardee explicitly and unambiguously consents to the collection, use, disclosure and transfer, in electronic or other form, of the Awardee’s personal data as described in this document by and among, as applicable, the Company, the Employer and the External Administrator for the exclusive purpose of implementing, administering and managing the Awardee’s participation in the Plan.

The Awardee hereby understands that the Company and the Employer hold certain personal information about the Awardee, including, but not limited to, the Awardee’s name, home address and telephone number, email address, date of birth, social insurance, passport or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Stock Awards or any other entitlement to Shares or equivalent benefits awarded, canceled, exercised, vested, unvested or outstanding in the Awardee’s favor, for the purpose of implementing, administering and managing the Plan (“Data”). The Awardee hereby understands that Data may be transferred to any third parties (including the External Administrator) assisting in the implementation, administration and management of the Plan, that these recipients may be located in the Awardee’s country or elsewhere, such as outside the European Economic Area, and that the recipient’s country may have different data privacy laws and protections than the Awardee’s country. All such transfers of Data will be in accordance with the Company’s Privacy Policies and Guidelines. The Company or the Employer will impose contractual obligations on recipients to only process the data for the purposes set out herein. In addition, in the event that the Company or the Employer transfers Data to a recipient who is located outside of the country that Awardee’s Data was collected, the Company or the Employer (as applicable) shall ensure that the recipient provides the Awardee’s Data a level of protection comparable to that of the data protection laws in the country in which the Data was collected. This includes, but is not limited to, ensuring that the recipient has in place adequate security measures to protect the Data, and ensuring that the recipient does not retain the Data longer than necessary for the purposes set out herein or for any other legal purposes.

The Awardee hereby understands that the Awardee may request a list with the names and addresses of any potential recipients of the Data by contacting the Awardee’s local human resources representative. The Awardee authorizes the recipients to receive, possess, use, retain and transfer the Data, in electronic or other form, for the purposes of implementing, administering and managing the Awardee’s participation in the Plan, including any requisite transfer of such Data as may be required to a broker or other third party with whom the Awardee may elect to deposit any Shares acquired upon vesting of the Stock Award. The Awardee hereby understands that the Awardee may, at any time, view Data, request information about the storage and processing of Data, require any necessary amendments to Data. Further, the Awardee understands that he or she is providing the

consents herein on a purely voluntary basis. If the Awardee does not consent, or if he or she later seeks to revoke his or her consent, his or her employment status or service with the Employer will not be affected by reason of his or her refusal to consent; the only consequence of refusing or withdrawing the Awardee's consent is that the Company would not be able to grant Stock Awards or other equity awards to the Awardee or administrator or maintain such awards. Therefore, the Awardee understands that refusing or withdrawing his or her consent may affect his or her ability to participate in the Plan. For more information on the consequences of the Awardee's refusal to consent or withdrawal of consent, the Awardee understands that he or she may contact his or her human resources representative responsible for the Awardee's country at the local or regional level.

Finally, upon request of the Company or the Employer, the Awardee agrees to provide an executed data privacy consent form (or any other agreements or consents that may be required by the Company and/or the Employer) that the Company and/or the Employer may deem necessary to obtain from the Awardee for the purpose of administering the Awardee's participation in the Plan in compliance with the data privacy laws in his or her country, either now or in the future. The Awardee understands and agrees that he or she will not be able to participate in the Plan if he or she fails to provide any such consent or agreement requested by the Company and/or the Employer.

SOUTH KOREA

Data Privacy. This provision is an addendum to Section 11 of the Award Agreement.

Period of Retention and Use. The Company, Employer or any third parties (including the External Administrator) assisting in the implementation, administration and management of the Plan will retain and use your personal data in accordance with the time periods and in the format specified in the General Retention Schedule Retention. In the following circumstances, the Awardee's personal data may be retained for longer than the specified periods:

- as required by law or court order; and
- as needed to defend or pursue legal claims.

Third Party Transfer of Personal Data.

1. Your personal data may be transferred to third parties as below:

Fidelity Investments Institutional Operations Company

2. Third Party's Purpose of Using the Personal Information: The purposes in which the third party receives and processes the personal data are the same as stated in Section 11 above.

3. Items of Personal Data to be Transferred: The personal data that the third party processes are the same as stated in Section 11 above.

4. Period of Retention and Use by Recipient: Until the recipient's purpose of using the personal information is achieved.

SPAIN

Labor Law Acknowledgment. This provision supplements Section 10 (Nature of the Award) of the Award Agreement:

In accepting the Stock Award, the Awardee acknowledges that the Awardee consents to participation in the Plan and has received a copy of the Plan.

The Awardee understands that the Company has unilaterally, gratuitously and discretionally decided to grant the Stock Award under the Plan to individuals who may be employees of the Company or its Affiliates or Subsidiaries throughout the world. The decision is a limited decision that is entered into upon the express assumption and condition that any grant will not bind the Company or any of its Affiliates or Subsidiaries. Consequently, the Awardee understands that the Stock Award is granted on the assumption and condition that the Stock Award and any Shares acquired upon vesting of the Stock Award shall not become a part of any employment contract (either with the Company or any of its related entities) and shall not be considered a mandatory benefit, salary for any purposes (including severance compensation) or any other right whatsoever.

Additionally, the Awardee understands that the vesting of the Stock Award is expressly conditioned on the Awardee's continued and active rendering of Service to the Company or a Subsidiary or Affiliate such that if the Awardee's Service is terminated for any reason (including for the reasons listed below but with the exception of the circumstances specified in Section 4(b)-(d) of the Award Agreement), the Award will cease vesting immediately effective as of the date the Awardee's Service is terminated. This will be the case, for example, even if (a) the Awardee is considered to be unfairly dismissed without good cause (*i.e.*, subject to a "*despido improcedente*"); (b) the Awardee is dismissed for disciplinary or objective reasons or due to a collective dismissal; (c) the Awardee's Service is terminated due to a change of work location, duties or any other employment or contractual condition; (d) the Awardee's Service is terminated due to unilateral breach of contract of the Company or any of its Subsidiaries or Affiliates; or (e) the Awardee's Service is terminated for any other reason (with the exception of the circumstances specified in Section 4(b)-(d) of the Award Agreement). Consequently, upon termination of Service for any of the above reasons, the Awardee will automatically lose any rights to the Stock Award to the extent that it has not yet become vested as of the date the Awardee's Service is terminated, as described in the Award Agreement. The Awardee acknowledges that he or she has read and specifically accepts the conditions referred to above and in Section 4 of the Award Agreement.

Finally, the Awardee understands that this grant would not be made to the Awardee but for the assumptions and conditions referred to above; thus, the Awardee acknowledges and freely accepts that should any or all of the assumptions be mistaken or should any of the conditions not be met for any reason, then any grant of or right to the Stock Award shall be null and void.

Securities Law Acknowledgement. The Stock Award and the Shares subject to the Stock Award do not qualify under Spanish regulation as securities. No "offer of securities to the public," as defined under Spanish law, has taken place or will take place in the Spanish territory. The Award Agreement has not been nor will be registered with the *Comisión Nacional del Mercado de Valores*, and does not constitute a public offering prospectus.

SWITZERLAND

Securities Law Notice. The offering of the Plan is considered a private offering in Switzerland; therefore, it is not subject to registration in Switzerland. Neither this document nor any other materials relating to the Plan (i) constitutes a prospectus as such term is understood pursuant to article 652a of the Swiss Code of Obligations, (ii) may be publicly distributed nor otherwise made publicly available in Switzerland, or (iii) have been or will be filed with, approved or supervised by any Swiss regulatory authority, including the Swiss Financial Market Supervisory Authority (FINMA).

TAIWAN

Securities Law Notice. The offer of participation in the Plan is available only for employees of the Company and its Subsidiaries or Affiliates. The offer of participation in the Plan is not a public offer of securities by a Taiwanese company.

UNITED KINGDOM

Responsibility for Taxes. The following provision supplements Section 7 (Responsibility for Taxes) of the Award Agreement:

“Without limitation to Section 7 of the Award Agreement, the Awardee agrees that the Awardee is liable for all Tax-Related Items and hereby covenants to pay all such Tax-Related Items as and when requested by the Company or, if different, the Employer or by Her Majesty’s Revenue and Customs (“HMRC”) (or any other tax authority or any other relevant authority). The Awardee also agrees to indemnify and keep indemnified the Company or the Employer against any Tax-Related Items that they are required to pay or withhold or have paid or will pay to HMRC (or any other tax authority or any other relevant authority) on the Awardee’s behalf.

Notwithstanding the foregoing, if the Awardee is a director or executive officer of the Company (within the meaning of Section 13(k) of the Exchange Act), the terms of the immediately foregoing provision will not apply. In such case, if the amount of any income tax due is not collected from or paid by the Awardee within 90 days of the end of the U.K. tax year in which an event giving rise to the indemnification described above occurs, the amount of any uncollected income taxes may constitute a benefit to the Awardee on which additional income tax and national insurance contributions (“NICs”) may be payable. The Awardee will be responsible for reporting and paying any income tax due on this additional benefit directly to HMRC under the self-assessment regime and for paying to the Company or the Employer, as applicable, any employee NICs due on this additional benefit, which the Company or the Employer may recover from the Awardee by any of the means referred to in Section 7 of the Award Agreement.”

Joint Election. As a condition of the Awardee’s participation in the Plan and the vesting of the Stock Award, the Awardee agrees to accept any liability for secondary Class 1 national insurance contributions (the

“Employer NICs”) which may be payable by the Company and/or the Employer in connection with the Stock Award and any event giving rise to Tax-Related Items. To accomplish the foregoing, the Awardee agrees to execute a joint election with the Company (the “Election”), the form of such Election being formally approved by HMRC, and any other consent or elections required to accomplish the transfer of the Employer NICs to the Awardee. The Awardee further agrees to execute such other joint elections as may be required between him or her and any successor to the Company and/or the Employer. The Awardee further agrees that the Company and/or the Employer may collect the Employer NICs by any of the means set forth in Section 7 of the Award Agreement.

No Recoupment. Section 19 of the Award Agreement shall not apply.



Terms & Conditions U.S. Indefinite Relocation

August 7, 2018

Mr. Robert McMahon
2 Whitman Lane
Hopkinton, MA 01748

Dear Bob:

I have the pleasure of confirming the terms and conditions which apply to your move from Hopkinton, MA to Santa Clara, CA. This letter outlines the terms and conditions of your move for Agilent Technologies, Inc or any affiliated, subsidiary, or successor employer by which you are employed ("Agilent"). I understand your relocation will begin on or before August 1, 2018.

Agilent will assist you in your move from Hopkinton, MA to Santa Clara, CA by providing you with relocation assistance per the US Indefinite Relocation, which includes the following provisions:

- a) **House-Hunting trip:** One trip is allowed for employee and spouse/domestic partner for up to 7 days/6 nights. This includes reasonable lodging (room and tax), transportation, babysitting (for children remaining at home) and per diem to cover meals, phone calls and laundry expenses. This is a taxable benefit and will be tax assisted. The amount of the benefit will be added to the employee's W-2 as income.
- a) **Shipment of household goods:** Up to 20,000 lbs from one primary residence, including shipment of two (max. 2) automobiles. Packing and unpacking, delivery to new location, normal appliance disconnections and connections. For internal relocations up to 2 days paid time off for packing of household goods; up to 3 days paid time off for delivery and unpacking of HHG in destination location for internal relocations and New Hires. If necessary, Storage in Transit (SIT) up to a maximum of 30 days of household goods in the new location. The shipment of goods and 30 days of storage benefit is taxable benefit and will be tax assisted. The amount of the benefit will be added to the employee's W-2 as income.
- b) **Final Travel:** Air economy travel one-way (or automobile travel reimbursement at the current mileage rate of \$.545/mile, maximum of 2 cars) for employee, spouse/partner and dependent family members who permanently reside with the employee and who will be relocating to the new household. One night lodging and 1 day of per diem of \$156.00. This is a taxable benefit and will be tax assisted. The amount of the benefit will be added to the employee's W-2 as income.
- c) **Temporary Living Accommodations:** Up to a maximum of 60 consecutive days. Per Diem will be provided at \$156.00 if staying in a corporate apartment. If less than 30 days and staying in a hotel per diem is \$80.00. Two days of a rental car will be provided; fuel will included in the per diem. This is a taxable benefit and will be tax assisted. The amount of this benefit will be added to the employee's W-2 as income.

Revised: 02/2018

- d) **Temporary Transportation:** Rental of one automobile up to a maximum of sixty (60) consecutive days, or until personal automobile arrives, whichever is sooner. Fuel will be the responsibility of the employee. This is a taxable benefit and will be tax assisted. The amount of this benefit will be added to the employee's W-2 as income.
- e) **Relocation allowance:** 1 month's base salary (minus taxes) to be disbursed post arrival. This sum is intended to cover a variety of individual relocation expenses not specifically reimbursed such as pet transportation, driver license & registration fees, utility hook-up charges, club membership, etc. This benefit is fully taxable, and taxes are deducted prior to payment through Agilent payroll.
- f) **Destination Support:** Where available, you and your family will receive the services of a Destination Services provider in the destination location to assist you in finding housing to purchase or rent. This is a taxable benefit and will be tax assisted. The amount of this benefit will be added to the employee's W-2 as income.
- g) **Family/Home Visits:** Reimbursement of up to 2 round-trip transportation for you or your family when you precede your family to the new work location. 1 trip per month/maximum of 2 trips in first two months. This is a taxable benefit and will be tax assisted. The amount of this benefit will be added to the employee's W-2 as income.
- h) **Pre Decision Support Consulting:** Before you accept an employment offer Cartus will contact you to explain the relocation provisions and provide an overview of the process.
- i) **Pre View Trip:** Authorized for you, your spouse/partner for 3 days/2 nights in the destination location to determine if you will accept the relocation.
- j) **VIP Services:** Your relocation benefits will be coordinated by a Cartus Executive VIP Consultant that is specially trained on Agilent's "high touch" service and are prepared to respond creatively
- k) **Mortgage Subsidy:** You are authorized a 4-3-2-1 graduated mortgage interest rate buy down that temporarily subsidizes your mortgage payment on the purchase of a new home in the destination location over a period of 4 years.
- l) **Mobility Bonus:** You are authorized a onetime payment in the amount of 10% of your annual salary. This benefit is fully taxable, and taxes are deducted prior to payment through Agilent payroll. This payment will be made to you post arrival in the host location.

Agilent complies with the Sarbanes-Oxley Act of 2002. This act prohibits companies with public stock or debt listed or traded in the U.S. from extending or arranging, directly or indirectly (including through a subsidiary), personal loans to directors or executive officers. This means that neither the Company nor the relocation provider may loan/advance funds for any reason, e.g. home purchase down payments etc. to officers of the company. Advances of amounts that are not repayable by the employee may be permitted, but will be reviewed on a case-by-case basis.

Cartus will contact you to initiate the proper arrangements and will be available to answer any questions. The relocation element of the compensation package is contingent upon your execution of the attached Relocation Agreement and compliance with the terms of that Agreement. **No substitutions or cash outs** for any of the provided relocation components are permitted. This relocation package is valid for 12 months from the effective date August 1, 2018.

Bob, I believe this fully outlines the issues discussed concerning your relocation to Santa Clara, CA. Please signify your acceptance of this transfer by signing below and returning this letter to your Client Services Consultant (CSC).

Sincerely,

/s/ Mike McMullen
Mike McMullen
Hiring Manager

I AGREE TO THE TERMS AND CONDITIONS COVERING MY RELOCATION AS SET FORTH IN THIS LETTER.

/s/ Robert W. McMahon 8/8/18
Robert McMahon Date

ENCL:

- Relocation Agreement.
-

U.S. Domestic Relocation Agreement

Date: August 7, 2018
Name: Robert McMahan

I understand and agree that Agilent Technologies, Inc. or any affiliated, subsidiary, or successor employer by which I am employed ("Agilent") may, in its sole discretion, require that I provide acceptable documentation of some or all of my relocation expenses before reimbursing me for those expenses.

I further understand and agree that Agilent's obligation to make any relocation payment(s) is contingent upon my continued employment with the Company. I acknowledge that all relocation payments made to me or on my behalf during the 12 months following the relocation start date are in the nature of an advance, that is, I have not earned those payments until I have completed one year of employment in the new location. Thus, if I voluntarily terminate my employment prior to the last day of the twelfth month following the relocation start date, I agree to pay back 1/12th of all relocations payments advanced to me for each full month short of twelve.

In the event of involuntary termination arising from a Workforce Management Program (WFM), no reimbursement is required. However, in the event that my employment is involuntarily terminated during the 12 months following the relocation start date for violation of Agilent policies or for performance reasons, I agree to repay Agilent or any subsidiary, affiliate or successor by which I am employed for the relocation costs Agilent advanced to me or on my behalf in accordance with the formula set forth above for voluntary terminations.

I hereby authorize Agilent or the subsidiary, affiliate or successor by which I am employed to withhold from my final paycheck any unearned relocation advance paid to me in accordance with the formula set forth above. I further agree to re-affirm this authorization in writing in the event that my employment is terminated, either voluntarily or involuntarily for reasons other than WFM, during the 12 months following the relocation start date. I understand that my final paycheck will pay me at least the US minimum wage. In the event the amount I owe Agilent or the subsidiary, affiliate or successor by which I am employed is greater than the amount withheld from my final paycheck, I agree to pay the balance in full to Agilent or the subsidiary, affiliate or successor by which I am employed within thirty (30) days of my termination date.

I understand that nothing stated in this letter alters the at-will status of employment.

/s/ Robert W. McMahan 8/8/18
Robert McMahan Date

NOTE: You are encouraged to seek tax advice from your personal tax advisor at your own expense to determine the impact of any relocation payments upon your individual tax liability. You are also encouraged to save all of your relocation expense receipts for tax purposes. The IRS provides tax information, forms and publications at no charge to the public at <http://www.irs.gov>.

SIGNIFICANT SUBSIDIARIES

	<u>Organized Under the Laws of</u>
Agilent Technologies World Trade, Inc.	Delaware
Dako A/S	Denmark
Agilent Technologies Luxco S.à.r.l.	Luxembourg
Agilent Technologies Luxembourg Holding S.à.r.l.	Luxembourg
Agilent Technologies Europe B.V.	Netherlands
Agilent Technologies Singapore (Holdings) Pte. Ltd.	Singapore
Agilent Technologies Singapore (International) Pte. Ltd.	Singapore
Agilent Technologies Singapore (Global) Pte Ltd.	Singapore
Agilent Technologies Rhone S.à.r.l.	Switzerland

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Forms S-3 (No. 333-209512) and S-8 (No's. 333-189051, 333-158096, 333-157002, 333-150873, 333-116400, 333-88864, 333-47024, 333-38194, 333-38080, 333-35016, and 333-91121) of Agilent Technologies, Inc. of our report dated December 20, 2018 relating to the consolidated financial statements, financial statement schedule and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PRICEWATERHOUSECOOPERS LLP

San Jose, California
December 20, 2018

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Michael R. McMullen, certify that:

1. I have reviewed this Form 10-K of Agilent Technologies, Inc.
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 20, 2018

/s/ MICHAEL R. MCMULLEN

Michael R. McMullen

Director, President and Chief Executive Officer

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Robert W. McMahon, certify that:

1. I have reviewed this Form 10-K of Agilent Technologies, Inc.
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 20, 2018

/s/ ROBERT W. MCMAHON

Robert W. McMahon

Senior Vice President and Chief Financial Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Agilent Technologies, Inc. (the "Company"), on Form 10-K for the period ended October 31, 2018, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Michael R. McMullen, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

A signed original of this written statement required by Section 906 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.

Date: December 20, 2018

/s/ MICHAEL R. MCMULLEN

Michael R. McMullen

Director, President and Chief Executive Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Agilent Technologies, Inc. (the "Company"), on Form 10-K for the period ended October 31, 2018, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Robert W. McMahon, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

A signed original of this written statement required by Section 906 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.

Date: December 20, 2018

/s/ ROBERT W. MCMAHON

Robert W. McMahon

Senior Vice President and Chief Financial Officer