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Although forward-looking statements in this Annual Report reflect our good faith judgment, such statements can only be based on facts and factors currently known by us. Consequently, forward-looking statements are inherently subject to risks and uncertainties and actual results and outcomes may differ materially from the results and outcomes discussed in or anticipated by the forward-looking statements. Factors that could cause or contribute to such differences in results and outcomes include without limitation those discussed under the heading “Risk Factors” below, as well as those discussed elsewhere in this Annual Report. Readers are urged not to place undue reliance on these forward-looking statements, which speak only as of the date of this Annual Report. We undertake no obligation to revise or update any forward-looking statements in order to reflect any event or circumstance that may arise after the date of this Annual Report. Readers are urged to carefully review and consider the various disclosures made in this Annual Report, which attempt to advise interested parties of the risks and factors that may affect our business, financial condition, results of operations and prospects.

## PART I

### Item 1. Business

We incorporated in 1985 under the laws of the state of California. In 1991, we reincorporated in the state of Delaware. We operate and report using a 52-53 week fiscal year ending on the last Sunday in September. Our 52-week fiscal years consist of four equal fiscal quarters of 13 weeks each, and our 53-week fiscal years consist of three 13-week fiscal quarters and one 14-week fiscal quarter. The financial results for our 53-week fiscal years and our 14-week fiscal quarters will not be exactly comparable to our 52-week fiscal years and our 13-week fiscal quarters. The fiscal years ended September 27, 2015, September 28, 2014 and September 29, 2013 included 52 weeks.

### Overview

We continue to lead the development and commercialization of a digital communication technology called CDMA (Code Division Multiple Access), and we also continue our role as one of the leaders in the development and commercialization of the OFDMA (Orthogonal Frequency Division Multiple Access) family of technologies, including LTE (which stands for Long Term Evolution and is an OFDM (Orthogonal Frequency Division Multiplexing) -based standard that uses OFDMA, and single-carrier FDMA (Frequency Division Multiple Access), for cellular wireless communication applications). We own significant intellectual property applicable to products that implement any version of CDMA and OFDMA in mobile communications products, including patents, patent applications and trade secrets. The mobile communications industry generally recognizes that a company seeking to develop, manufacture and/or sell products that use CDMA and/or LTE standards will require a patent license from us. CDMA and OFDMA are two of the main technologies currently used in digital wireless communications networks (also known as wireless networks). Based on wireless connections, CDMA, OFDMA and TDMA (Time Division Multiple Access), of which GSM (Global System for Mobile Communications) is the primary commercial form, are the primary digital technologies currently used to transmit a wireless device user’s voice or data over radio waves using a public cellular wireless network.

We also develop and commercialize a number of other key technologies used in handsets and tablets that contribute to end-user demand, and we own substantial intellectual property related to these technologies. Some of these were contributed to and are being commercialized as industry standards, such as certain audio and video codecs, the advanced WLAN (wireless local area networks, or Wi-Fi) 802.11 functionality and volatile and non-volatile memory controllers. Other technologies widely used by wireless devices that we have developed are not related to any industry standards, such as operating systems, user interfaces, graphics and camera processing functionality, integrated circuit packaging techniques, sensors and sensor fusion algorithms and application processor architectures.

In addition to licensing portions of our intellectual property portfolio, which includes certain patent rights essential to and/or useful in the manufacture and sale of certain wireless products, we design, manufacture, have manufactured on our behalf and market products and services based on CDMA, OFDMA and other digital communications technologies. Our products principally consist of integrated circuits (also known as chips or chipsets) and system software used in mobile devices and in wireless networks. We also sell other products and services, which include: integrated circuits for use in wired devices, particularly broadband gateway equipment, desktop computers and streaming media players; software products and

content and push-to-talk enablement services for wireless operators; and products designed for the implementation of small cells.

## Industry Trends

The mobile industry has experienced tremendous growth over the past 20 plus years, growing from less than 60 million global connections in 1994 (WCIS+, September 2015) to approximately 7.2 billion global connections in September 2015 (GSMA Intelligence, October 2015). As the largest technology platform in the world, mobile has made peoples' lives more connected, transforming the way we interact with one another and with the world. The scale and pace of innovation in mobile, especially around connectivity and computing capabilities, is also impacting industries beyond wireless.

**Extending connectivity.** 3G/4G (third generation/fourth generation) multimode mobile broadband technology has been a key driver of the growth of mobile, providing users with fast, reliable, always-on connectivity. As of September 2015, there were approximately 3.4 billion 3G/4G connections globally (CDMA-based, OFDMA-based and CDMA/OFDMA multimode) representing nearly 47% of total mobile connections. By 2019, global 3G/4G connections are projected to reach 5.8 billion, with more than 80% of these connections coming from emerging regions (GSMA Intelligence, October 2015).

3G/4G multimode mobile broadband has also emerged as an important platform for extending the reach and potential of the Internet. In 2010, the number of broadband connections using mobile technology surpassed those using fixed technologies, making mobile networks the primary method of access to the Internet for many people around the world. The impact is further amplified in emerging regions, where 3G/4G connections are approximately five times the number of fixed Internet connections (GSMA Intelligence, July 2015 and WBIS, October 2015). In China, 3G/4G LTE multimode services have experienced strong adoption since being launched in the fourth quarter of calendar 2013, with more than 290 million connections reported as of September 2015 (GSMA Intelligence, October 2015). In India, mobile operators are preparing to roll out 3G/4G LTE multimode services, providing consumers with the benefits of advanced mobile broadband connectivity while creating new opportunities for device manufacturers and other members of the mobile ecosystem. 3G/4G mobile broadband may be the first and, in many cases, the only way that people in these regions access the Internet.

Looking ahead, with decades of experience shaping the evolution of 3G, 4G LTE and Wi-Fi, the wireless industry is actively developing and standardizing the next generation of mobile technology under the name 5G (fifth generation). While the 5G standard is still being defined, it is expected that 5G will include higher data rates and the addition of new spectrum, as well as support new connectivity needs into the next decade, while seamlessly leveraging 4G and Wi-Fi technology. 5G is also expected to enhance mobile broadband and, importantly, have the scalability, security and reliability to support a wide variety of use cases spanning from connecting a significant number of things to new services, such as enabling complex robots to perform a variety of tasks and services. As was the case for 4G, 5G devices are expected to support 3G/4G capabilities, allowing mobile operators to continue to take advantage of current network deployments. At the same time, 4G LTE will continue to be developed and evolve in parallel with the advent of 5G, which is anticipated around 2020.

**Growth in smartphones.** Smartphone adoption is growing worldwide, fueled by 3G/4G LTE multimode connectivity, powerful application processors (delivering speeds over 2 GHz) and advanced multimedia and location awareness capabilities. In 2014, more than 1.2 billion smartphones shipped globally, representing a year-over-year increase of approximately 29%, and cumulative shipments of smartphones between 2015 and 2019 are projected to reach over 8.5 billion (Gartner, September 2015). Much of this growth is happening in emerging regions, where smartphones accounted for nearly 60% of handset shipments in 2014 and are expected to reach approximately 93% in 2019 (Gartner, September 2015). Growth in smartphones has not only been driven by the success of premium-tier devices, but also by the number of affordable handsets that are fueling shipments in emerging regions.

Consumer demand for new types of connected experiences, combined with the need of mobile operators and device manufacturers to provide differentiated features and services, is driving continued innovation within the smartphone. This innovation is happening across multiple technology dimensions, including connectivity, application processors, camera, audio, video, location, radio frequencies and sensors. As a result, the smartphone has, in many ways, supplanted the personal computer as the go-to device for email, web browsing, music, gaming and social networking, among others. It is also replacing many traditional consumer electronics items due to its advanced capabilities, including digital cameras, video cameras, Global Positioning System (GPS) units and music players.

**Expansion into new adjacent opportunities.** A number of industries beyond mobile are leveraging technology innovations found in smartphones to bring advanced connectivity and computing capabilities into a broad array of end-devices and access points, which make up the "edge" of the network. With billions of connected devices projected to be added to the Internet over the coming years, enhancing the capabilities and performance at the edge of the network will be vital to improving its scalability as it enters this new phase of growth. These enhancements are helping to transform industry

segments, including networking, automotive, mobile computing and the Internet of Things, and enabling companies to create intelligently connected products and services and reach new customers.

The proliferation of intelligently connected “things” (e.g., consumer electronics, appliances, automobiles and medical devices) is enabling new types of user experiences, as smartphones are able to interact with and control more of the things around us. Through the addition of embedded sensors, connected things are able to collect and send data about their environment, providing users with contextually relevant information and further increasing their utility and value.

## Wireless Technologies

The growth in the use of wireless devices worldwide, such as smartphones and tablets, and the demand for data services and applications requires continuous innovation to further improve the user experience, enable new services and increase network capacity, make use of different frequency bands and enable dense network deployments. To meet these requirements, different wireless communications technologies continue to evolve. For nearly three decades, we have invested and continue to invest heavily in research and development of many of these cellular wireless communication technologies, including CDMA and OFDMA. As a result, we have developed and acquired (and continue to develop and acquire) significant related intellectual property. This intellectual property has been incorporated into the most widely accepted and deployed cellular wireless communications technology standards, and we have licensed it to more than 285 licensees, including all leading wireless device and infrastructure manufacturers. Most of the cellular wireless technologies can be grouped into three categories.

**TDMA-based.** TDMA-based technologies are characterized by their access method allowing several users to share the same frequency channel by dividing the signal into different time slots. Most of these systems are classified as 2G (second generation) technology.

The main examples of TDMA-based technologies are GSM (deployed worldwide), IS-136 (deployed in the Americas) and Personal Digital Cellular (PDC) (deployed in Japan). Compared to the earlier generations of analog technologies, these digital communications technologies provided for significantly enhanced efficiency within a fixed spectrum, resulting in increased voice capacity. These technologies also enable enhanced services, such as SMS (short message service) texting service, as well as low-speed data services. GSM has evolved to support mobile packet data transmission, such as GPRS (General Packet Radio Service) and EDGE (Enhanced Data Rates for Global Evolution).

To date, GSM has been more widely adopted than CDMA-based standards; however, CDMA technologies are the basis for all 3G wireless systems. According to GSMA Intelligence estimates as of September 30, 2015, there were approximately 3.8 billion GSM connections worldwide, representing approximately 53% of total cellular connections. The transition of wireless devices from 2G to 3G/4G continued around the world with 3G/4G connections up 22% year-over-year (GSMA Intelligence, October 2015).

**CDMA-based.** CDMA-based technologies are characterized by their access method allowing several users to share the same frequency and time by allocating different orthogonal codes to individual users. Most of the CDMA-based technologies are classified as 3G technology.

There are a number of variants of CDMA-based technologies deployed around the world, in particular CDMA2000, EV-DO (Evolution Data Optimized), WCDMA (Wideband CDMA) and TD-SCDMA (Time Division-Synchronous CDMA) (deployed exclusively in China). CDMA-based technologies provide vastly improved capacity for voice and low-rate data services as compared to analog technologies and significant improvements over TDMA-based technologies, such as GSM. To date, these technologies have seen many revisions, and they continue to evolve. New features continue to be defined in the 3rd Generation Partnership Project (3GPP). The following are the CDMA-based technologies and their standards revisions:

- CDMA2000 revisions A through E
- 1xEV-DO revisions A through C
- WCDMA/HSPA releases 4 through 12
- TD-SCDMA releases 4 through 12

CDMA technologies ushered in a significant increase in broadband data services that continue to grow globally. According to GSMA Intelligence estimates as of October 2015, there were approximately 2.5 billion CDMA-based connections worldwide, representing approximately 35% of total cellular connections.

**OFDMA-based.** OFDMA-based technologies are characterized by their access method allowing several users to share the same frequency band and time by allocating different subcarriers to individual users. Most of the OFDMA-based

technologies deployed in 2015 are classified as 4G technology. It is expected that 5G will heavily leverage OFDM-based technologies. We continue to play a significant role in the development of LTE and LTE Advanced, which are the predominant 4G technologies currently in use.

LTE is incorporated in 3GPP specifications starting from release 8 and uses OFDMA in the downlink and single carrier FDMA (SC-FDMA) in the uplink. LTE has two modes, FDD (frequency division duplex) and TDD (time division duplex), to support paired and unpaired spectrum, respectively, and is being developed by 3GPP. The principal benefit of LTE is its ability to leverage a wide range of spectrum (bandwidths of 10 MHz or more). LTE is designed to seamlessly interwork with 3G through 3G/4G multimode devices. Most LTE devices rely on 3G for voice services across the network, as well as for ubiquitous data services outside the LTE coverage area and on 4G for data services inside the coverage area. LTE's voice solution, VoLTE (voice over LTE), is being commercially deployed in a growing number of networks.

Carrier aggregation, one of the significant improvements of LTE Advanced, was commercially launched in June 2013 and continues to evolve to aggregate additional carriers as well as the uplink. Along with carrier aggregation, LTE Advanced brings many more enhancements, including advanced antenna techniques and optimization for small cells. Apart from improving the performance of existing networks, these releases also bring new enhancements, such as LTE Direct for proximity-based device-to-device discovery, improved LTE broadcast, optimizations of machine-type communications and the ability to use LTE Advanced in unlicensed spectrum, which is referred to as LTE Unlicensed. There are multiple options for deploying LTE Unlicensed for different deployment scenarios.

- LTE-U, which relies on an LTE control carrier based on 3GPP Release 10/11/12, uses carrier aggregation to combine unlicensed and licensed spectrum and will be used in early mobile operator deployments in countries such as the United States, Korea and India.
- Licensed Assisted Access (LAA), which is part of 3GPP Release 13, also aggregates unlicensed and licensed spectrum.
- MuLTEfire will operate solely in unlicensed spectrum without a licensed anchor channel.

There also have been ongoing efforts to make the interworking between LTE and Wi-Fi more seamless and completely transparent to the users. The seamless interworking is also intended to enable the device to use the best possible link or links depending on conditions of the LTE and Wi-Fi links as the applications run on devices. Further integration is achieved with LTE+Wi-Fi link Aggregation (LWA), which utilizes existing and new carrier Wi-Fi deployments.

LTE releases are often combined and given "marketing" or "trade" names that also indicate their benefits. The name LTE covers releases 8 and 9. Releases 10 and beyond are referred to as LTE Advanced. According to GSMA Intelligence estimates as of September 30, 2015, there were approximately 860 million global 3G/4G multimode connections worldwide, representing approximately 12% of total cellular connections.

According to the Global mobile Suppliers Association (GSA), as of October 2015, more than 650 wireless operators have commercially deployed or started testing LTE. In addition, LTE Advanced standards featuring carrier aggregation have begun to be deployed. As of October 2015, 142 operators were investing in LTE Advanced carrier aggregation across 62 countries, and 95 operators have launched commercially in 48 countries (GSA, October 2015).

Looking ahead to 2020 and beyond, the wireless industry is actively preparing the next generation of cellular technologies under the name 5G. While 5G is still being defined, it is expected that 5G will include advancements of 3G/4G features available today, including further enhanced mobile broadband services, device-to-device capabilities, use of both licensed and unlicensed spectrum and connectivity of a significant number of things. 5G is also expected to expand in a number of new areas to increase the addressable frequencies to include emerging higher bands such as those in the millimeter wave range, expand into new vertical product segments and define a radio link with much higher levels of reliability for control of vehicles and machines. In September 2015, 3GPP started a standardization track to define the 5G standard.

**Other (non-cellular) wireless technologies.** There are other, non-cellular wireless technologies that have also been broadly adopted.

**Wireless Local Area Networks.** Wireless local area networks (WLAN), such as Wi-Fi, link two or more nearby devices wirelessly and usually provide connectivity through an access point. Wi-Fi systems are based on standards developed by the Institute of Electrical and Electronics Engineers (IEEE) in the 802.11 family of standards. 802.11ac, which includes advanced features such as multiple user multiple in/multiple out (MU MIMO) and support for large bandwidths and higher order modulation, primarily targets broadband connectivity for mobile devices, laptops and consumer electronics devices using 5 GHz spectrum. 802.11ad provides multi-gigabit data rates for short range communication, using 60 GHz spectrum. 802.11ah, which is still under development and targets sub-GHz spectrum, is envisioned to be a solution for "connected home"

applications that require long battery life. We played a leading role in the development of 802.11ac, 802.11ad and 802.11ah, and we are actively involved in the development of 802.11ax, which is an evolution from 802.11ac and will cover both the 2.4GHz and 5GHz unlicensed bands.

**Bluetooth.** Bluetooth is a wireless personal area network that provides wireless connectivity between devices over short distances ranging from a few centimeters to a few meters. Bluetooth technology provides wireless connectivity to a wide range of fixed or mobile consumer electronics devices. Bluetooth functionalities are standardized by the Bluetooth Special Interest Group in various versions of the specification (from 1.0 to 4.0), which include different functionalities, such as enhanced data rate or low energy (known as Bluetooth Smart). We recently acquired CSR plc, a leading contributor to Bluetooth evolution in the areas of core, HID (human interface device), A/V (audio/ video) and Smart Mesh.

**Location Positioning Technologies.** Location positioning technologies have evolved rapidly in the industry over the past few years in order to deliver an enhanced location experience. In the past, satellite navigation systems were predominantly used to provide the accurate location of mobile devices. We were a key developer of the Assisted-GPS (A-GPS) positioning technology used in most cellular handsets today. For uses requiring the best accuracy for E911 services and navigational based services, A-GPS provided a leading-edge solution.

The industry has now evolved to support additional inputs for improving the location experience. We now support multiple constellations, including: GPS, GLONASS (Global Navigation Satellite System) and BeiDou; terrestrial-based positioning using WWAN (Wireless Wide Area Network) and Wi-Fi-based inputs; Wi-Fi RSSI (received signal strength indication) and RTT (round-trip time) signals for indoor location; and third-party sensors combined with GNSS (Global Navigation Satellite System) measurements to provide interim support for location-based services in rural areas and indoors, where other signal inputs may not be available.

#### Other Significant Technologies used in Cellular and Certain Consumer Electronic Devices and Networks

We have played a leading role in developing many of the other technologies used in cellular and certain consumer electronic devices and networks, including:

- graphics and display processing functionality;
- video coding based on H.264 standards, which has already been deployed commercially, and its successor, H.265, or high-efficiency video codec, which will be deployed to support ultra-high definition (4K) video content;
- audio coding, including for multimedia use and for voice/speech use (also known as Vocoding);
- camera and camcorder functions;
- system user and interface features;
- security and content protection systems;
- volatile (LP-DDR2, 3, 4) and non-volatile (eMMC) memory and related controllers; and
- power management systems and batteries.

#### Operating Segments

We have three reportable segments. We conduct business primarily through two reportable segments, QCT (Qualcomm CDMA Technologies) and QTL (Qualcomm Technology Licensing), and our QSI (Qualcomm Strategic Initiatives) reportable segment makes strategic investments. Revenues in fiscal 2015, 2014 and 2013 for our reportable segments were as follows (in millions, except percentage data):

	QCT	QTL	QSI
<b>2015</b>	\$ 17,154	\$ 7,947	\$ 4
<i>As a percent of total</i>	68%	31%	—%
<b>2014</b>	\$ 18,665	\$ 7,569	\$ —
<i>As a percent of total</i>	70%	29%	—%
<b>2013</b>	\$ 16,715	\$ 7,554	\$ —
<i>As a percent of total</i>	67%	30%	—%

**QCT Segment.** QCT is a leading developer and supplier of integrated circuits and system software based on CDMA, OFDMA and other technologies for use in voice and data communications, networking, application processing, multimedia

and global positioning system products. QCT's integrated circuit products are sold and its system software is licensed to manufacturers that use our products in wireless devices, particularly mobile phones, tablets, laptops, data modules, handheld wireless computers and gaming devices, access points and routers, data cards and infrastructure equipment, and in wired devices, particularly broadband gateway equipment, desktop computers and streaming media players. Our Mobile Station Modem (MSM) integrated circuits, which include the Mobile Data Modem, Qualcomm Single Chip and Qualcomm Snapdragon processors and LTE modems, perform the core baseband modem functionality in wireless devices providing voice and data communications, as well as multimedia applications and global positioning functions. In addition, our Snapdragon processors provide advanced application and graphics processing capabilities. Because of our experience in designing and developing CDMA- and OFDMA-based products, we design both the baseband integrated circuit and the supporting system as well, including the RF (Radio Frequency), PM (Power Management) and connectivity devices. This approach enables us to optimize the performance of the wireless device with improved product features and integration with the network system. Our portfolio of RF products includes QFE (Qualcomm Front End) radio front end components that are designed to simplify the RF design for LTE multimode, multiband mobile devices, reduce power consumption and improve radio performance. QCT's system software enables the other device components to interface with the integrated circuit products and is the foundation software enabling manufacturers to develop devices utilizing the functionality within the integrated circuits. We also provide support, including reference designs and tools, to enable our customers to reduce the time required to design their products and bring their products to market. We plan to add additional features and capabilities to our integrated circuit products to help our customers reduce the cost and size of their products, to simplify our customers' design processes and to enable more wireless devices and services.

QCT offers a broad portfolio of products, including both wireless device and infrastructure integrated circuits, in support of CDMA2000 1X and 1xEV-DO, as well as the EV-DO Revision A/B evolutions of CDMA 2000 technology. Leveraging our expertise in CDMA, we also develop and offer integrated circuits supporting the WCDMA version of 3G for manufacturers of wireless devices. More than 90 device manufacturers have selected our WCDMA products that support GSM/GPRS, WCDMA, HSDPA (High-Speed Downlink Packet Access), HSUPA (High-Speed Uplink Packet Access) and HSPA+ for their devices. QCT also sells multimode products for the LTE standard, which offer seamless backward compatibility to existing 3G technologies. Our integrated circuit products are included in a broad range of devices, from low-tier, entry-level devices for emerging regions, which may use our Qualcomm Reference Design (QRD) products, to premium-tier devices. In fiscal 2015, QCT shipped approximately 932 million MSM integrated circuits for wireless devices worldwide, compared to approximately 861 million and 716 million in fiscal 2014 and 2013, respectively.

Our modems are built to work with increasingly complex networks. They support the latest communication technologies and adapt to network conditions and user needs in real time to enable delivery of faster, smoother data and voice connections. Our 3G/4G modem roadmap delivers the latest network technologies across multiple product tiers and devices. This roadmap is the result of our years of research into emerging network standards and the development of chipsets that take advantage of these new standards, while maintaining backward compatibility with existing standards.

Each Qualcomm Snapdragon processor is a highly integrated, mobile optimized system on a chip incorporating our advanced technologies, including a Snapdragon modem for fast reliable mobile broadband connectivity, a high performance central processing unit (CPU), digital signal processor (DSP), graphics processing unit (GPU), image signal processor, multimedia subsystems, including high fidelity audio, high-definition video and advanced imaging capabilities, our hardware-based suite of Qualcomm Haven Security Solutions, and highly accurate location positioning engines. Our CPU cores are designed to deliver high levels of compute performance at low power, allowing manufacturers to design powerful, slim and power-efficient devices. Our Qualcomm Adreno GPUs are also designed to deliver high quality graphics performance for visually rich 3D gaming and user interfaces. The heterogeneous compute architecture of our Snapdragon processors is designed to ensure that the CPU, DSP and GPU work efficiently together, each being utilized only when needed, which enhances the processing capacity, speed and efficiency of our Snapdragon processors and the battery life of devices using our processors.

Our wireless products also consist of integrated circuits and system software for WLAN, Bluetooth, frequency modulation (FM) and near field communications as well as technologies that enable location data and services, including GPS, GLONASS and BeiDou. Our WLAN, Bluetooth and FM products have been integrated with the Qualcomm Snapdragon processors to provide additional connectivity for mobile phones, tablets and consumer electronics. QCT also offers stand alone WLAN, Bluetooth, applications processor and Ethernet products for mobile devices, consumer electronics, computers, automotive infotainment, home appliances and other connected devices. Our networking products include WLAN, Powerline and Ethernet chips, network processors and software. These products enable home and business networks to support the growing number of connected devices, digital media, data services and other smart home applications.

Through our acquisition of CSR plc (CSR) in August 2015, QCT also offers an expanded portfolio of connectivity technologies, which complements its current offerings in the Internet of Things and automotive infotainment categories. CSR is an innovator in the development of multifunction semiconductor platforms and technologies for the automotive, consumer and voice and music categories. CSR's wireless products consist of integrated circuits and system software for Bluetooth, Bluetooth Smart and WLAN as well as technologies that enable location data and services, including GPS.

QCT utilizes a fabless production model, which means that we do not own or operate foundries for the production of silicon wafers from which our integrated circuits are made. Integrated circuits are die cut from silicon wafers that have completed the package assembly and test manufacturing processes. The semiconductor package supports the electrical contacts that connect the integrated circuit to a circuit board. Die cut from silicon wafers are the essential components of all of our integrated circuits and a significant portion of the total integrated circuit cost. We employ both turnkey and two-stage manufacturing models to purchase our integrated circuits. Turnkey is when our foundry suppliers are responsible for delivering fully assembled and tested integrated circuits. Under the two-stage manufacturing model, we purchase die in singular or wafer form from semiconductor manufacturing foundries and contract with separate third-party suppliers for manufacturing services such as wafer bump, probe, assembly and final test.

We rely on independent third-party suppliers to perform the manufacturing and assembly, and most of the testing, of our integrated circuits based primarily on our proprietary designs and test programs. Our suppliers also are responsible for the procurement of most of the raw materials used in the production of our integrated circuits. The primary foundry suppliers for our various digital, analog/mixed-signal, RF and PM integrated circuits are Global Foundries Inc., Samsung Electronics Co. Ltd., Semiconductor Manufacturing International Corporation, Taiwan Semiconductor Manufacturing Company and United Microelectronics Corporation. The primary semiconductor assembly and test suppliers are Advanced Semiconductor Engineering, Amkor Technology, Siliconware Precision Industries and STATSChipPAC. The majority of our foundry and semiconductor assembly and test suppliers are located in the Asia-Pacific region.

QCT's sales are primarily made through standard purchase orders for delivery of products. QCT generally allows customers to reschedule delivery dates within a defined time frame and to cancel orders prior to shipment with or without payment of a penalty, depending on when the order is canceled. The industry in which QCT operates is intensely competitive. QCT competes worldwide with a number of United States and international designers and manufacturers of semiconductors. As a result of global expansion by foreign and domestic competitors, technological changes, device manufacturer concentrations and the potential for further industry consolidation, we anticipate the industry to remain very competitive. We believe that the principal competitive factors for our products include performance, level of integration, quality, compliance with industry standards, price, time-to-market, system cost, design and engineering capabilities, new product innovation and customer support. QCT also competes in both single- and multi-mode environments against alternative communications technologies including, but not limited to, GSM/GPRS/EDGE, TDMA and TD-SCDMA.

QCT's current competitors include, but are not limited to, companies such as Airoha Technology Corp., Broadcom, Ericsson, HiSilicon Technologies, Intel, Marvell Technology, Maxim Integrated Products, MediaTek, Microchip Technology Inc., Nvidia, Realtek Semiconductor, Samsung Electronics and Spreadtrum Communications (which is controlled by Tsinghua Unigroup). QCT also faces competition from products internally developed by our customers, including some of our largest customers, and from some early-stage companies. Our competitors devote significant amounts of their financial, technical and other resources to develop and market competitive products and, in some cases, to develop and adopt competitive digital communication or signal processing technologies, and those efforts may materially and adversely affect us. Although we have attained a significant position in the industry, many of our current and potential competitors may have advantages over us that include, among others: lower cost structures; motivation by our customers in certain circumstances to utilize their own internally-developed integrated circuit products or to find alternate suppliers or choose alternate technologies; foreign government support of other technologies or our competitors; better known brand names; ownership and control of manufacturing facilities and greater expertise in manufacturing processes; more extensive relationships with local distribution companies and original equipment manufacturers in emerging geographic regions (such as China); and/or a more established presence in certain regions.

**QTL Segment.** QTL grants licenses or otherwise provides rights to use portions of our intellectual property portfolio, which, among other rights, include certain patent rights essential to and/or useful in the manufacture and sale of certain wireless products, including, without limitation, products implementing CDMA2000, WCDMA, CDMA TDD, and/or LTE standards and their derivatives. Our licensees manufacture wireless products, including mobile devices (also known as subscriber units, which includes handsets), other consumer devices (e.g., tablets and laptops), machine-to-machine devices (e.g., telematics devices, meter reading devices) and plug-in end user data modem cards, certain embedded modules for incorporation into end user products, infrastructure equipment required to establish and operate a network and equipment to test networks and subscriber units. QTL licensing revenues include license fees and royalties based on sales by licensees of

products incorporating or using our intellectual property. License fees are fixed amounts paid in one or more installments. Royalties are generally based upon a percentage of the wholesale (i.e., licensee's) selling price of complete licensed products, net of certain permissible deductions (including transportation, insurance, packing costs and other items). Revenues generated from royalties are subject to quarterly and annual fluctuations. The vast majority of QTL revenues have been generated through our licensees' sales of CDMA2000- and WCDMA-based products, such as feature phones and smartphones. We have invested in both the acquisition and development of OFDMA technology and intellectual property and have generated the industry leading patent portfolio applicable to LTE and LTE-Advanced. Nevertheless, we face competition in the development of intellectual property for future generations of digital wireless communications technologies and services.

In February 2015, we reached a resolution with the National Development and Reform Commission (NDRC) in China regarding its investigation and agreed to implement a rectification plan that modifies certain of our business practices in China. The rectification plan provides, among other things, that for licenses of only our 3G and 4G essential Chinese patents for branded devices sold for use in China starting on January 1, 2015 (and reported to us in the third quarter of fiscal 2015), we will charge running royalties at royalty rates of 5% for 3G CDMA or WCDMA devices (including multimode 3G/4G devices) and 3.5% for 4G devices that do not implement CDMA or WCDMA (including 3-mode LTE-TDD devices), in each case using a royalty base of 65% of the net selling price.

Separate and apart from licensing manufacturers of wireless devices and network equipment, we have entered into certain arrangements with competitors of our QCT segment, such as Broadcom and MediaTek. A principal purpose of these arrangements is to provide our QCT segment and the counterparties certain freedom of operation with respect to each party's integrated circuits business. In every case, these agreements expressly reserve the right for QTL to seek royalties from the customers of such integrated circuit suppliers with respect to such suppliers' customers' sales of CDMA-, WCDMA- and OFDMA-based wireless devices into which such suppliers' integrated circuits are incorporated.

Upon the initial deployment of OFDMA-based networks, the products implementing such technologies generally have been multimode and implement CDMA-based technologies. The licenses granted under our existing CDMA license agreements generally cover multimode CDMA/OFDMA (3G/4G) devices, and our licensees are obligated to pay royalties under their CDMA license agreements for such devices. Further, over 155 companies (including Alcatel-Lucent, Huawei, LG, Microsoft, Samsung, Sony and ZTE) have royalty-bearing licenses under our patent portfolio for use in LTE or other OFDMA-based products that do not implement any CDMA-based standards.

Since our founding in 1985, we have focused heavily on technology development and innovation. These efforts have resulted in a leading intellectual property portfolio related to, among other things, wireless technology. We have an extensive portfolio of United States and foreign patents, and we continue to pursue patent applications around the world. Our patents have broad coverage in many countries, including Brazil, China, India, Japan, South Korea, Taiwan and countries in Europe and elsewhere. A substantial portion of our patents and patent applications relate to digital wireless communications technologies, including patents that are essential or may be important to the commercial implementation of CDMA2000, WCDMA (UMTS), TD-SCDMA, TD-CDMA (Time Division CDMA) and OFDMA/LTE products. Our patent portfolio is the most widely and extensively licensed in the industry, with over 285 licensees. Additionally, we have a substantial patent portfolio related to key technologies used in communications and other devices and/or related services, some of which were developed in industry standards development bodies. These include H.264 video codec technology, the next generation video codec technology (H.265 or high-efficiency video codec), advanced WLAN (802.11ac), volatile (LP-DDR2, 3, 4) and non-volatile (eMMC) memory controllers, operating systems, user interfaces, graphics and camera processing, packaging techniques, sensor and sensor fusion algorithms, application processor architectures and MPEG-H 3D Audio. Over the years, a number of companies have challenged our patent position, but at this time, companies in the mobile communications industry generally recognize that any company seeking to develop, manufacture and/or sell subscriber units or infrastructure equipment that use CDMA-based and/or OFDMA-based technologies will require a license or other rights to use our patents.

We have licensed or otherwise provided rights to use our patents to hundreds of companies on industry-accepted terms. Unlike some other companies in our industry that hold back certain key technologies, we offer companies substantially our entire patent portfolio for use in cellular subscriber devices and cell site infrastructure equipment. Our strategy to make our patented technologies broadly available has been a catalyst for industry growth, helping to enable a wide range of companies offering a broad array of wireless products and features while increasing the capabilities of and/or driving down average and low-end selling prices for 3G handsets and other wireless devices. By licensing or otherwise providing rights to use our patents to a wide range of equipment manufacturers, encouraging innovative applications, supporting equipment manufacturers with integrated chipset and software products and focusing on improving the efficiency of the airlink for wireless operators, we have helped 3G CDMA evolve and grow and reduced device pricing, all at a faster pace than the 2G technologies that preceded it (e.g., GSM).



Standards bodies have been informed that we hold patents that might be essential for all 3G standards that are based on CDMA. We have committed to such standards bodies that we will offer to license our essential patents for these CDMA standards on a fair, reasonable and non-discriminatory basis. We have also informed standards bodies that we hold patents that might be essential for certain standards that are based on OFDM/OFDMA technology (e.g., 802.16e, 802.16m and LTE, including FDD and TDD versions) and have committed to offer to license our essential patents for these OFDMA standards on a fair, reasonable and non-discriminatory basis. We have made similar commitments with respect to certain other technologies implemented in industry standards.

Our license agreements generally provide us rights to use certain of our licensees' technology and intellectual property to manufacture and sell certain components (e.g., Application-Specific Integrated Circuits) and related software, subscriber units and/or infrastructure equipment. In most cases, our use of our licensees' technology and intellectual property does not require us to pay royalties based on the sale of our products.

**QSI Segment.** QSI makes strategic investments that are focused on opening new or expanding opportunities for our technologies and supporting the design and introduction of new products and services (or enhancing existing products or services) for voice and data communications. Many of these strategic investments are in early-stage companies in a variety of industries, including, but not limited to, digital media, e-commerce, healthcare and wearable devices. Investments primarily include non-marketable equity instruments, which generally are recorded using the cost method or the equity method, and convertible debt instruments, which are recorded at fair value. QSI also holds wireless spectrum, which at September 27, 2015 consisted of L-Band spectrum in the United Kingdom that was subsequently sold in October 2015. In addition, QSI segment results include revenues and related costs associated with development contracts with one of our equity method investees. As part of our strategic investment activities, we intend to pursue various exit strategies for each of our QSI investments in the foreseeable future.

**Other Businesses.** Nonreportable segments include our small cell, data center and other wireless technology and service initiatives. Our nonreportable segments develop and offer products and services that include, but are not limited to: products designed for implementation of small cells to address the challenge of meeting the increased demand for data; products for data centers; products and services for mobile health; software products and content and push-to-talk enablement services to wireless operators; development, other services and related products to U.S. government agencies and their contractors; and software products that enable wireless learning for educators and students.

Additional information regarding our operating segments is provided in this Annual Report in "Notes to Consolidated Financial Statements, Note 8. Segment Information." Information regarding seasonality is provided in this Annual Report in "Part II, Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations, Our Business and Operating Segments" under the heading "Seasonality."

### Strategic Realignment Plan

In the fourth quarter of fiscal 2015, we announced a Strategic Realignment Plan designed to improve execution, enhance financial performance and drive profitable growth as we work to create sustainable long-term value for stockholders. The core elements of this plan include (a) right-sizing our cost structure; (b) reviewing alternatives to our corporate and financial structure; (c) reaffirming our plan to return significant capital to stockholders; (d) adding new Directors with complementary skills while reducing the average tenure of our Board of Directors; (e) further aligning executive compensation with performance and stockholder return objectives; and (f) making disciplined investments in areas that build upon our core technologies and capabilities and offer attractive growth opportunities and returns. As part of this, among other actions, we are implementing a cost reduction plan to reduce annual costs from fiscal 2015 levels (adjusted for variable compensation) of \$7.3 billion (as announced on July 22, 2015) by approximately \$1.1 billion through a series of targeted reductions across our businesses, particularly in QCT. We also plan to reduce annual share-based compensation grants by approximately \$300 million. We expect these cost reduction initiatives to be fully implemented by the end of fiscal 2016. Additional information regarding our Strategic Realignment Plan is provided in this Annual Report in "Notes to Consolidated Financial Statements, Note 10. Strategic Realignment Plan."

### Corporate Structure

We operate our businesses through our parent company, QUALCOMM Incorporated, and multiple direct and indirect subsidiaries. We have developed our corporate structure in order to address various legal, regulatory, tax, contractual compliance, operations and other matters. Substantially all of our products and services businesses, including QCT, and substantially all of our engineering, research and development functions, are operated by QUALCOMM Technologies, Inc. (QTI), a wholly-owned subsidiary of QUALCOMM Incorporated, and QTI's subsidiaries. QTL is operated by QUALCOMM

Incorporated, which owns the vast majority of our patent portfolio. Neither QTI nor any of its subsidiaries has any right, power or authority to grant any licenses or other rights under or to any patents owned by QUALCOMM Incorporated.

### **Revenue Concentrations, Significant Customers and Geographical Information**

Consolidated revenues from international customers and licensees as a percentage of total revenues were 99%, 99% and 97% in fiscal 2015, 2014 and 2013, respectively. During fiscal 2015, 53%, 16% and 13% of our revenues were from customers and licensees based in China (including Hong Kong), South Korea and Taiwan, respectively, compared to 50%, 23% and 11% during fiscal 2014, respectively, and 49%, 20% and 11% during fiscal 2013, respectively. We report revenues from external customers by country based on the location to which our products or services are delivered, which for QCT is generally the country in which our customers manufacture their products, or for licensing revenues, the invoiced addresses of our licensees. As a result, the revenues by country presented herein are not necessarily indicative of either the country in which the devices containing our products and/or intellectual property are ultimately sold to consumers or the country in which the companies that sell the devices are headquartered. For example, China revenues could include revenues related to shipments of integrated circuits to a company that is headquartered in South Korea but that manufactures devices in China, which devices are then sold to consumers in Europe and/or the United States. Additional geographic information is provided in this Annual Report in "Notes to Consolidated Financial Statements, Note 8. Segment Information."

A small number of customers/licensees historically have accounted for a significant portion of our consolidated revenues. In fiscal 2015, 2014 and 2013, revenues from Samsung Electronics and from Hon Hai Precision Industry Co., Ltd./Foxconn, its affiliates and other suppliers to Apple Inc. each comprised more than 10% of consolidated revenues.

### **Research and Development**

The communications industry is characterized by rapid technological change, evolving industry standards and frequent new product introductions, requiring a continuous effort to enhance existing products and technologies and to develop new products and technologies. We have significant engineering resources, including engineers with substantial expertise in CDMA, OFDMA and a broad range of other technologies. Using these engineering resources, we expect to continue to invest in research and development in a variety of ways in an effort to extend the demand for our products and services, including continuing the development of CDMA, OFDMA and other technologies, developing alternative technologies for certain specialized applications, participating in the formulation of new voice and data communication standards and technologies and assisting in deploying digital voice and data communications networks around the world. Our research and development team has a demonstrated track record of innovation in voice and data communication technologies and application processor technology, among others. Our research and development expenditures in fiscal 2015, 2014 and 2013 totaled approximately \$5.5 billion, \$5.5 billion and \$5.0 billion, respectively.

We develop, commercialize and actively support 3G CDMA-based technologies, including CDMA2000 1X, 1xEV-DO, EV-DO Revision A, EV-DO Revision B, 1X Advanced, WCDMA, HSDPA, HSUPA, HSPA+ and TD-SCDMA, as well as OFDMA-based technologies (including LTE), products and network operations, to grow our licensing and integrated circuit and related software revenues. We also make acquisitions to meet certain technology needs, to obtain development resources or to pursue new business opportunities.

We make investments to provide our integrated circuit customers with chipsets designed on leading-edge technology nodes that combine multiple technologies for use in consumer devices (e.g., smartphones, tablets, laptops), consumer electronics and other products (e.g., access points and routers, data cards and infrastructure equipment). In addition to 3G and 4G LTE technologies, our chipsets support other wireless and wired connectivity technologies, including WLAN, Bluetooth, Ethernet, GPS, GLONASS, BeiDou and Powerline communication. Our integrated chipsets often include multiple technologies, including advanced multimode modems, application processors and graphics engines, as well as the tools to connect these diverse technologies. We continue to support Android, Windows and other mobile client software environments in our chipsets.

We develop on our own, and with our partners, innovations that are integrated into our product portfolio to further expand the opportunity for wireless communications and enhance the value of our products and services. These innovations are expected to enable our customers to improve the performance or value of their existing services, offer these services more affordably and introduce revenue-generating broadband data services ahead of their competition.

We have research and development centers in various locations throughout the world that support our global development activities and ongoing efforts to advance CDMA, OFDMA and a broad range of other technologies. We continue to use our substantial engineering resources and expertise to develop new technologies, applications and services

and make them available to licensees to help grow the communications industry and generate new or expanded licensing opportunities.

We make investments across a broad spectrum of opportunities that leverage our existing technical and business expertise to deploy new business models and enter into new industry segments, such as technologies to address: the connected home and the Internet of Things; automotive; networking; mobile computing; small cells, which can be used by carriers to extend the capacity of licensed and unlicensed wireless spectrum, and the challenge of meeting the increased demand for data; very high speed connectivity; data centers; mobile health; wireless charging; and machine learning, including robotics.

## **Sales and Marketing**

Sales and marketing activities of our operating segments are discussed under Operating Segments. Other marketing activities include public relations, advertising, digital marketing and social media, participation in technical conferences and trade shows, development of business cases and white papers, competitive analyses, industry intelligence and other marketing programs, such as marketing development funds with our customers. Our Corporate Marketing department provides company information on our Internet site and through other channels regarding our products, strategies and technology to industry analysts and media.

## **Competition**

Competition faced by our operating segments is discussed under Operating Segments. Competition in the communications industry throughout the world continues to increase at a rapid pace as consumers, businesses and governments realize the potential of wireless communications products and services. We have facilitated competition in the wireless communications industry by licensing our technologies to, and therefore enabling, a large number of manufacturers. Although we have attained a significant position in the industry, many of our current and potential competitors may have advantages over us that include, among others: lower cost structures; motivation by our customers in certain circumstances to utilize their own internally-developed integrated circuit products or to find alternate suppliers or choose alternate technologies; foreign government support of other technologies or our competitors; better known brand names; ownership and control of manufacturing facilities and greater expertise in manufacturing processes; more extensive relationships with local distribution companies and original equipment manufacturers in emerging geographic regions (such as China); and/or a more established presence in certain regions. These relationships may affect customers' decisions to purchase products or license technology from us. Accordingly, new competitors or alliances among competitors could emerge and rapidly acquire significant market positions to our detriment.

We expect competition to increase as our current competitors expand their product offerings and introduce new technologies and services in the future and as additional companies compete with our products or services based on 3G, 4G or other technologies. Although we intend to continue to make substantial investments in developing new products and technologies and improving existing products and technologies, our competitors may introduce alternative products, services or technologies that threaten our business. It is also possible that the prices we charge for our products and services may continue to decline as competition continues to intensify.

## **Corporate Responsibility and Sustainability**

We strive to better our local and global communities through ethical business practices, socially empowering technology applications, educational and environmental programs and employee diversity and volunteerism.

- *Our Governance.* We aim to demonstrate accountability, transparency, integrity and ethical business practices throughout our operations and interactions with our stakeholders.
- *Our Products.* We strive to meet or exceed industry standards for product responsibility and supplier management.
- *Our Workplace.* We endeavor to provide a safe and healthy work environment where diversity is embraced and various opportunities for training, growth and advancement are encouraged for all employees.
- *Our Community.* We have strategic relationships with a wide range of local organizations and programs that develop and strengthen communities worldwide.
- *Our Environment.* We aim to expand our operations while minimizing our carbon footprint, conserving water and reducing waste.

- *Wireless Reach.* We invest in strategic projects that foster entrepreneurship, aid in public safety, enhance delivery of health care, enrich teaching and learning and improve environmental sustainability through the use of advanced wireless technologies.

## Employees

At September 27, 2015, we employed approximately 33,000 full-time, part-time and temporary employees. During fiscal2015, the number of employees increased by approximately 1,700 primarily due an increase of approximately 2,400 employees as a result of acquisitions, partially offset by a decrease of approximately 700 employees related to businesses that we exited in fiscal 2015. During the fourth quarter of fiscal 2015, we announced a Strategic Realignment Plan under which we expect to reduce our full time, part time and temporary workforce by approximately 15% through a series of targeted reductions across our businesses, the majority of which will occur in fiscal 2016.

## Available Information

Our Internet address is [www.qualcomm.com](http://www.qualcomm.com). There we make available, free of charge, our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and any amendments to those reports, as soon as reasonably practicable after we electronically file such material with, or furnish it to, the Securities and Exchange Commission (SEC). We also make available on our Internet site public financial information for which a report is not required to be filed with or furnished to the SEC. Our SEC reports and other financial information can be accessed through the investor relations section of our Internet site. The information found on our Internet site is not part of this or any other report we file with or furnish to the SEC.

## Executive Officers

Our executive officers (and their ages at September 27, 2015) are as follows:

Paul E. Jacobs, age 52, has served as Executive Chairman since March 2014. He has served as Chairman of the Board of Directors since March 2009 and as a director since June 2005. He served as Chief Executive Officer from July 2005 to March 2014 and as Group President of Qualcomm Wireless & Internet from July 2001 to June 2005. In addition, he served as Executive Vice President from February 2000 to June 2005. Dr. Jacobs holds a B.S. degree in Electrical Engineering and Computer Science, an M.S. degree in Electrical Engineering and a Ph.D. degree in Electrical Engineering and Computer Science from the University of California, Berkeley.

Steve Mollenkopf, age 46, has served as Chief Executive Officer since March 2014 and as a director since December 2013. He served as Chief Executive Officer-elect and President from December 2013 to March 2014. He served as President and Chief Operating Officer from November 2011 to December 2013. In addition, he served as Executive Vice President and Group President from September 2010 to November 2011, as Executive Vice President and President of QCT from August 2008 to September 2010, as Executive Vice President, QCT Product Management from May 2008 to August 2008, as Senior Vice President, Engineering and Product Management from July 2006 to May 2008 and as Vice President, Engineering from April 2002 to July 2006. Mr. Mollenkopf joined Qualcomm in 1994 as an engineer and throughout his tenure at Qualcomm held several other technical and leadership roles. Mr. Mollenkopf holds a B.S. degree in Electrical Engineering from Virginia Tech and an M.S. degree in Electrical Engineering from the University of Michigan.

Derek K. Aberle, age 45, has served as President since March 2014. He served as Executive Vice President and Group President from November 2011 to March 2014, as President of QTL from September 2008 to November 2011 and as Senior Vice President and General Manager of QTL from October 2006 to September 2008. Mr. Aberle joined Qualcomm in December 2000 and prior to October 2006 held positions ranging from Legal Counsel to Vice President and General Manager of QTL. Mr. Aberle holds a B.A. degree in Business Economics from the University of California, Santa Barbara and a J.D. degree from the University of San Diego.

Cristiano R. Amon, age 45, has served as Executive Vice President, Qualcomm Technologies, Inc. (a subsidiary of Qualcomm Incorporated) and Co-President of QCT since October 2012. He served as Senior Vice President, Qualcomm Incorporated and Co-President of QCT from June 2012 to October 2012, as Senior Vice President, QCT Product Management from October 2007 to June 2012 and as Vice President, QCT Product Management from September 2005 to October 2007. Mr. Amon joined Qualcomm in 1995 as an engineer and throughout his tenure at Qualcomm held several other technical and leadership roles. Mr. Amon holds a B.S. degree in Electrical Engineering from UNICAMP, the State University of Campinas, Brazil.

George S. Davis, age 57, has served as Executive Vice President and Chief Financial Officer since March 2013. Prior to joining Qualcomm, Mr. Davis was Chief Financial Officer of Applied Materials, Inc., a provider of manufacturing

equipment, services and software to the semiconductor, flat panel display, solar photovoltaic and related industries, from November 2006 to March 2013. Mr. Davis held several other leadership roles at Applied Materials from November 1999 to November 2006. Prior to joining Applied Materials, Mr. Davis served 19 years with Atlantic Richfield Company in a number of finance and other corporate positions. Mr. Davis holds a B.A. degree in Economics and Political Science from Claremont McKenna College and an M.B.A. degree from the University of California, Los Angeles.

Matthew S. Grob, age 49, has served as Executive Vice President, Qualcomm Technologies, Inc. and Chief Technology Officer since October 2012. He served as Executive Vice President, Qualcomm Incorporated and Chief Technology Officer from July 2011 to October 2012 and as Senior Vice President, Engineering from July 2006 to July 2011. Mr. Grob joined Qualcomm in August 1991 as an engineer and throughout his tenure at Qualcomm held several other technical and leadership roles. Mr. Grob holds a B.S. degree in Electrical Engineering from Bradley University and an M.S. degree in Electrical Engineering from Stanford University.

Brian Modoff, age 56, has served as Executive Vice President, Strategy and Mergers & Acquisitions since October 2015. Prior to joining Qualcomm, Mr. Modoff was a Managing Director in Equity Research at Deutsche Bank Securities Inc., a provider of financial services, from March 1999 to October 2015. Prior to joining Deutsche Bank, Mr. Modoff was a research analyst at several financial institutions from November 1993 to March 1999. Mr. Modoff holds a B.A. degree in Economics from California State University, Fullerton and a Master of International Management from the Thunderbird School of Global Management.

Venkata S.M. “Murthy” Renduchintala, age 50, has served as Executive Vice President, Qualcomm Technologies, Inc. and Co-President of QCT since October 2012. He served as Senior Vice President, Qualcomm Incorporated and Co-President of QCT from June 2012 to October 2012, as Senior Vice President, QCT Engineering from October 2007 to June 2012 and as Vice President, QCT Engineering from April 2004 to October 2007. Dr. Renduchintala holds a B.E. degree in Electrical Engineering, an M.B.A. degree and a Ph.D. degree in Digital Communication from the University of Bradford, United Kingdom.

Donald J. Rosenberg, age 64, has served as Executive Vice President, General Counsel and Corporate Secretary since October 2007. He served as Senior Vice President, General Counsel and Corporate Secretary of Apple Inc. from December 2006 to October 2007. From May 1975 to November 2006, Mr. Rosenberg held numerous positions at IBM Corporation, including Senior Vice President and General Counsel. Mr. Rosenberg holds a B.S. degree in Mathematics from the State University of New York at Stony Brook and a J.D. degree from St. John’s University School of Law.

Michelle M. Sterling, age 48, has served as Executive Vice President of Human Resources since May 2015. She served as Senior Vice President, Human Resources from October 2007 to April 2015. Ms. Sterling joined Qualcomm in 1994 as a Human Resources Generalist and throughout her tenure at Qualcomm held several other leadership roles. Ms. Sterling holds a B.S. degree in Business Management from the University of Redlands.

James H. Thompson, age 51, has served as Executive Vice President, Engineering for Qualcomm Technologies, Inc. since October 2012. He served as Senior Vice President, Engineering for Qualcomm Incorporated from July 1998 to October 2012. Dr. Thompson joined Qualcomm in 1992 as a senior engineer and throughout his tenure at Qualcomm held several other technical and leadership roles. Dr. Thompson holds B.S., M.S. and Ph.D. degrees in Electrical Engineering from the University of Wisconsin.

#### **Item 1A. Risk Factors**

You should consider each of the following factors as well as the other information in this Annual Report in evaluating our business and our prospects. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently consider immaterial may also impair our business operations. If any of these risks occur, our business and financial results could be harmed. In that case, the trading price of our common stock could decline. You should also refer to the other information set forth in this Annual Report, including our financial statements and the related notes.

#### **Risks Related to Our Businesses**

***Our revenues depend on commercial network deployments, expansions and upgrades of CDMA, OFDMA and other communications technologies, our customers’ and licensees’ sales of products and services based on these technologies and our ability to drive our customers’ demand for our products and services.***

We develop, patent and commercialize technology and products based on CDMA, OFDMA and other communications technologies, which are primarily wireless. We depend on our customers, our licensees and operators of wireless networks to

use these technologies in their adoption of our products and services into their devices and networks and on the timing of their deployments of new products and services. We also depend on our customers and licensees to develop products and services with value-added features to drive consumer demand for new 3G, 3G/4G multimode and 4G devices, as well as the selling prices for such devices. Further, our rate of revenue growth depends on third parties incorporating our technology, products and/or services into new device types used in industries beyond traditional cellular communications, such as automotive, connected home and wearable uses. Our revenues and/or growth in revenues could be negatively impacted, our business may be harmed and our substantial investments in these technologies may not provide us an adequate return, if:

- wireless operators and industries beyond traditional cellular communications deploy alternative technologies;
- wireless operators delay 3G and 3G/4G multimode network deployments, expansions or upgrades and/or delay moving 2G customers to 3G, 3G/4G multimode or 4G wireless devices;
- LTE, an OFDMA-based 4G wireless technology, is not more widely deployed or further commercial deployment is delayed;
- government regulators delay making sufficient spectrum available for 3G and/or 3G/4G networks, thereby restricting the expansion of 3G/4G wireless connectivity to keep pace with consumer demand;
- wireless operators are unable to drive improvements in 3G or 3G/4G multimode network performance and/or capacity;
- our customers' and licensees' revenues and sales of products, particularly premium-tier products, and services using these technologies do not grow or do not grow as quickly as anticipated due to, for example, the maturity of smartphone penetration in developed regions (where premium-tier products are common) or a reduction in the rate of device replacements by consumers; and/or
- we are unable to drive the adoption of our products and services into networks and devices based on CDMA, OFDMA and other communications technologies.

***Our industry is subject to competition in an environment of rapid technological change that could result in decreased demand and/or declining average selling prices for our products and those of our customers and/or licensees and/or result in placing new specifications or requirements on our products, each of which could negatively affect our revenues and operating results.***

Our products, services and technologies face significant competition, and the revenues we generate and/or the timing of such revenues, which depend on deployments and/or actions by others, may not meet expectations. We expect competition to increase as our current competitors expand their product offerings or reduce the prices of their products as part of a strategy to attract new business and/or customers, and as new opportunities develop, any of which would put continued pressure on the pricing of our products and services. Competition in wireless communications is affected by various factors that include, among others: device manufacturer concentrations; growth in emerging geographic regions; government intervention; evolving industry standards and business models; evolving methods of transmission of voice and data communications; increasing data traffic and densification of wireless networks; convergence and aggregation of connectivity technologies (including Wi-Fi and LTE) in both devices and access points; consolidation of wireless technologies and infrastructure at the network edge; networking and connectivity trends (including cloud services); the evolving nature of computing (including demand for always on, always connected capabilities); the speed of technological change (including the transition to smaller geometry process technologies); value-added features that drive selling prices as well as consumer demand for new 3G, 3G/4G multimode and 4G devices; turnkey, integrated products that incorporate hardware, software, user interface, applications and reference designs; rapid growth in mobile data consumption; scalability; and the ability of the system technology to meet customers' immediate and future network requirements. We anticipate that additional competitors will introduce products as a result of growth opportunities in wireless communications, the trend toward global expansion by foreign and domestic competitors, technological and public policy changes and relatively low barriers to entry in certain segments of the industry. Additionally, the semiconductor industry has experienced and may continue to experience consolidation, which could result in significant changes to the competitive landscape.

We expect that our future success will depend on, among other factors, our ability to:

- differentiate our integrated circuit products with innovative technologies across multiple products and features (e.g., modem, radio frequency front end, central, graphics and/or other processors, camera and connectivity) and with smaller geometry process technologies that drive performance;
- develop and offer integrated circuit products at competitive cost and price points to effectively cover both emerging and developed geographic regions and all device tiers;

- continue to drive the adoption of our integrated circuit products into the most popular device models and across a broad spectrum of devices, such as smartphones, tablets, automobiles, wearable and other connected devices and infrastructure products;
- maintain and/or accelerate demand for our integrated circuit products at the premium device tier, while increasing the adoption of our products in mid- and low-tier devices and in the turnkey product channel, in part by strengthening our integrated circuit product roadmap for, and developing channel relationships in, emerging geographic regions, such as China and India, and by providing turnkey products, which incorporate our integrated circuits, for low- and mid-tier smartphones and tablets;
- continue to be a leader in 4G technology evolution, including expansion of our LTE-based single mode licensing program, and continue to innovate and introduce 4G turnkey, integrated products and services that differentiate us from our competition;
- be a leader serving original equipment manufacturers, high level operating systems (HLOS) providers, operators and other industry participants as competitors, new industry entrants and other factors continue to affect the industry landscape;
- be a preferred partner (and sustain preferred relationships) providing integrated circuit products that support multiple operating system and infrastructure platforms to industry participants that effectively commercialize new devices using these platforms;
- increase and/or accelerate demand for our wired and wireless connectivity products, including networking products for consumers, carriers and enterprise equipment and connected devices;
- identify potential acquisition targets that will grow or sustain our business or address strategic needs, reach agreement on terms acceptable to us and effectively integrate these new businesses and/or technologies;
- create stand-alone value and/or contribute to the success of our existing businesses through acquisitions and other investments (and/or by developing customer, licensee and/or vendor relationships) in new industry segments and/or disruptive technologies, products and/or services (such as products for the connected home and the Internet of Things, automotive, networking, mobile computing, mobile health, machine learning, including robotics, and wireless charging, among others);
- become a leading supplier of radio frequency front end products, which are designed to address cellular radio frequency band fragmentation while improving radio frequency performance and assist original equipment manufacturers in developing multiband, multimode mobile devices; and/or
- continue to develop brand recognition to effectively compete against better known companies in mobile computing and other consumer driven segments and to deepen our presence in significant emerging geographic regions.

Competition in any or all product tiers, customer concentration and/or growth in sales of mid- and low-tier products, particularly relative to premium-tier products, may reduce average selling prices for our chipset products and the products of our customers and licensees. Certain of these dynamics are particularly pronounced in emerging geographic regions (e.g., China). Reductions in the average selling prices of our chipset products, without a corresponding increase in volumes, would negatively impact our revenues, and without corresponding decreases in average unit costs, would negatively impact our margins. In addition, reductions in the average selling prices of our licensees' products, unless offset by an increase in volumes, would generally decrease total royalties payable to us, negatively impacting our licensing revenues.

Companies that promote standards that are neither CDMA- nor OFDMA-based (e.g., GSM, Wi-Fi) as well as companies that design integrated circuits based on CDMA, OFDMA or their derivatives are generally competitors or potential competitors. Examples (some of which are strategic partners of ours in other areas) include Airoha Technology Corp., Broadcom, Ericsson, HiSilicon Technologies, Intel, Marvell Technology, Maxim Integrated Products, MediaTek, Microchip Technology Inc., Nvidia, Realtek Semiconductor, Samsung Electronics and Spreadtrum Communications (which is controlled by Tsinghua Unigroup). Some of these current and potential competitors may have advantages over us that include, among others: lower cost structures; motivation by our customers in certain circumstances to utilize their own internally-developed integrated circuit products or to find alternate suppliers or choose alternative technologies; foreign government support of other technologies or competitors; better known brand names; ownership and control of manufacturing facilities and greater expertise in manufacturing processes; more extensive relationships with local distribution companies and original equipment manufacturers in emerging geographic regions (such as China); and/or a more established presence in certain regions.

Certain of our software and our suppliers' software may contain or may be derived from "open source" software, and we have seen, and believe we will continue to see, an increase in customers requesting that we develop products, including

software associated with our integrated circuit products, that incorporate open source software elements and operate in an open source environment, which, under certain open source licenses, may offer accessibility to a portion of a product's source code and may expose related intellectual property to adverse licensing conditions. Licensing of such software may impose certain obligations on us if we were to distribute derivative works of the open source software. For example, these obligations may require us to make source code for the derivative works available to our customers in a manner that allows them to make such source code available to their customers, or license such derivative works under a particular type of license that is different than what we customarily use to license our software. Developing open source products, while adequately protecting the intellectual property rights upon which our licensing business depends, may prove burdensome and time-consuming under certain circumstances, thereby placing us at a competitive disadvantage. Also, our use and our customers' use of open source software may subject our products and our customers' products to governmental scrutiny and delays in product certification, which could cause customers to view our products as less desirable than our competitors' products. While we believe we have taken appropriate steps and employ adequate controls to protect our intellectual property rights, our use of open source software presents risks that could have an adverse effect on these rights and on our business.

***We derive a significant portion of our consolidated revenues from a small number of customers and licensees. If revenues derived from these customers or licensees decrease or the timing of such revenues fluctuates, our operating results could be negatively affected.***

Our QCT segment derives a significant portion of revenues from a small number of customers, and we expect this trend to continue in the foreseeable future. Our industry is experiencing and may continue to experience an increasing concentration of device share among a few companies, particularly at the premium tier, contributing to this trend. In addition, certain of our largest integrated circuit customers develop their own integrated circuit products, which they have in the past chosen, and may in the future, choose to utilize in their devices rather than our integrated circuit products (and/or sell their integrated circuit products to third parties in competition with us). The loss of any one of our significant customers, a reduction in the purchases of our products by such customers (due to their vertical integration strategies referenced above or otherwise) or cancellation of significant purchases from any of these customers would reduce our revenues and could harm our ability to achieve or sustain expected operating results, and a delay of significant purchases, even if only temporary, would reduce our revenues in the period of the delay. Further, concentration of device share among a few companies, and the corresponding purchasing power of these companies, may result in lower prices for our products which, if not accompanied by a sufficient increase in the volume of purchases of our products, could have an adverse effect on our revenues and margins. In addition, the timing and size of purchases by our significant customers may be impacted by the timing of such customers' new or next generation product introductions, over which we have little or no control, and the timing of such introductions may cause our operating results to fluctuate. Accordingly, if current industry dynamics and concentrations continue, our QCT segment's revenues will continue to depend largely upon, and be impacted by, future purchases and the timing and size of any such future purchases by these significant customers.

In addition, one of our largest customers purchases our Mobile Data Modem (MDM) products, which do not include our integrated application processor technology. To the extent such customer takes device share from our other customers who purchase our integrated modem and application processor products, which have higher revenue and margin contribution than our MDM products, our revenues and margins may be negatively impacted.

Further, companies that develop HLOS for devices, including leading technology companies, now sell their own devices. If we fail to effectively partner or continue partnering with these companies, or with their partners or customers, they may decide not to purchase (either directly or through their contract manufacturers), or to reduce or discontinue their purchases of, our integrated circuit products.

In addition, there has been and continues to be litigation among certain of our customers and other industry participants, and the potential outcomes of such litigation, including but not limited to injunctions against devices that incorporate our products and/or intellectual property or rulings on certain patent law or patent licensing issues that create new legal precedent, could impact our business, particularly if such action impacts one of our larger customers.

Although we have more than 285 CDMA-based licensees, our QTL segment derives a significant portion of licensing revenues from a limited number of licensees. In the event that one or more of our significant licensees fail to meet their reporting and/or payment requirements or we are unable to renew or modify one or more of such license agreements, our revenues, operating results and cash flows would be adversely impacted. Moreover, the future growth and success of our core licensing business will depend in part on the ability of our licensees to develop, introduce and deliver high-volume products that achieve and sustain customer acceptance. We have little or no control over the product development, sales efforts or pricing of products by our licensees, and our licensees might not be successful. Reductions in the average selling prices of wireless devices sold by our major licensees, without a sufficient increase in the volumes of such devices sold, would generally have an adverse effect on our licensing revenues.



***Efforts by some communications equipment manufacturers or their customers to avoid paying fair and reasonable royalties for the use of our intellectual property may require the investment of substantial management time and financial resources and may result in legal decisions and/or actions by governments, courts, regulators or agencies, Standards Development Organizations (SDOs) or other industry organizations that harm our business.***

From time to time, companies initiate various strategies to attempt to renegotiate, mitigate and/or eliminate their need to pay royalties to us for the use of our intellectual property. These strategies have included: (i) litigation, often alleging infringement of patents held by such companies, patent misuse, patent exhaustion, patent invalidity and/or unenforceability of our patents and/or licenses, or some form of unfair competition; (ii) taking positions contrary to our understanding of their contracts with us; (iii) appeals to governmental authorities; (iv) collective action, including working with wireless operators, standards bodies, other like-minded companies and other organizations, on both formal and informal bases, to adopt intellectual property policies and practices that could have the effect of limiting returns on intellectual property innovations; (v) lobbying governmental regulators and elected officials for the purpose of seeking the imposition of some form of compulsory licensing and/or to weaken a patent holder's ability to enforce its rights or obtain a fair return for such rights; and (vi) licensees using various strategies to attempt to shift their royalty obligation to their suppliers that results in lowering the wholesale (i.e., licensee's) selling price on which the royalty is calculated. In addition, particularly in China, certain licensees have disputed or underreported royalties owed to us under their license agreements with us, and certain companies have yet to enter into or delayed entering into license agreements with us for their use of our intellectual property, and such licensees and/or companies may continue to do so in the future. Further, to the extent such licensees and/or companies increase their device share, the negative impact of their underreporting and/or non-reporting on our business and operating results will be exacerbated.

We are currently subject to various litigation and governmental investigations and/or proceedings, some of which may arise out of the strategies described above. Certain legal matters are described more fully in this Annual Report in "Notes to Consolidated Financial Statements, Note 7. Commitments and Contingencies." The unfavorable resolution of one or more of these matters could have a material adverse effect on our business, results of operations, financial condition and/or cash flows. Depending on the type of matter, various remedies that could result from an unfavorable resolution include, among others, injunctions, monetary damages or fines or other orders to pay money and the issuance of orders to cease certain conduct and/or modify our business practices.

In addition, in connection with our participation in SDOs, we, like other patent owners, generally have made contractual commitments to such organizations to license those of our patents that would necessarily be infringed by standard-compliant products (standard-essential patents) on terms that are fair, reasonable and nondiscriminatory (FRAND). Some manufacturers and users of standard-compliant products advance interpretations of these FRAND commitments that are adverse to our licensing business, including interpretations that would limit the amount of royalties that we could collect on the licensing of our patent portfolio.

Further, some companies or entities have proposed significant changes to existing intellectual property policies for implementation by SDOs and other industry organizations with the goal of significantly devaluing standard-essential patents. For example, some have put forth proposals which would require a maximum aggregate intellectual property royalty rate for the use of all standard-essential patents owned by all of the member companies to be applied to the selling price of any product implementing the relevant standard. They have further proposed that such maximum aggregate royalty rate be apportioned to each member company with standard-essential patents based upon the number of standard-essential patents held by such company. Others have proposed that injunctions not be an available remedy for infringement of standard-essential patents and/or have made proposals that could severely limit damage awards and other remedies by courts for patent infringement (e.g., by severely limiting the base upon which the royalty percentage may be applied). A number of these strategies are purportedly based on interpretations of the policies of certain SDOs concerning the licensing of patents that are or may be essential to industry standards and on our (and/or other companies') alleged failure to abide by these policies.

Some SDOs, courts and governmental agencies have adopted and may in the future adopt some or all of these interpretations or proposals in a manner adverse to our interests, including in litigation to which we may not be a party.

We expect that such proposals, interpretations and strategies will continue in the future, and if successful, our business model would be harmed, either by limiting or eliminating our ability to collect royalties on all or a portion of our patent portfolio, limiting our return on investment with respect to new technologies, limiting our ability to seek injunctions against infringers of our standard-essential patents, constraining our ability to make licensing commitments when submitting our technology for inclusion in future standards (which could make our technology less likely to be included in such standards) or forcing us to work outside of SDOs or other industry groups to promote our new technologies, and our results of operations could be negatively impacted. In addition, the legal and other costs associated with asserting or defending our

positions have been and continue to be significant. We assume that such challenges, regardless of their merits, will continue into the foreseeable future and may require the investment of substantial management time and financial resources.

***The enforcement and protection of our intellectual property rights may be expensive, could fail to prevent misappropriation or unauthorized use of our proprietary intellectual property rights, could result in the loss of our ability to enforce one or more patents, or could be adversely affected by changes in patent laws, by laws in certain foreign jurisdictions that may not effectively protect our intellectual property rights or by ineffective enforcement of laws in such jurisdictions.***

We rely primarily on patent, copyright, trademark and trade secret laws, as well as nondisclosure and confidentiality agreements, international treaties and other methods, to protect our proprietary information, technologies and processes, including our patent portfolio. Policing unauthorized use of our products, technologies and proprietary information is difficult and time consuming. We cannot be certain that the steps we have taken, or may take in the future, have prevented or will prevent the misappropriation or unauthorized use of our proprietary information and technologies, particularly in foreign countries where the laws may not protect our proprietary intellectual property rights as fully or as readily as United States laws or where the enforcement of such laws may be lacking or ineffective. Some industry participants who have a vested interest in devaluing patents in general, or standard-essential patents in particular, have mounted attacks on certain patent systems, increasing the likelihood of changes to established patent laws. In the United States, there is continued discussion regarding potential patent law changes. The laws in certain foreign countries in which our products are or may be manufactured or sold, including certain countries in Asia, may not protect our intellectual property rights to the same extent as the laws in the United States. We expect that the European Union will adopt a unitary patent system in the next few years that may broadly impact that region's patent regime. We cannot predict with certainty the long-term effects of any potential changes. In addition, we cannot be certain that the laws and policies of any country or the practices of any standards bodies, foreign or domestic, with respect to intellectual property enforcement or licensing or the adoption of standards, will not be changed in the future in a way detrimental to our licensing program or to the sale or use of our products or technology.

We have had and may in the future have difficulty in certain circumstances in protecting or enforcing our intellectual property rights and/or contracts, including collecting royalties for use of our patent portfolio in particular foreign jurisdictions due to, among others: policies of foreign governments; challenges to our licensing practices under such jurisdictions' competition laws; adoption of mandatory licensing provisions by foreign jurisdictions (either with controlled/regulated royalties or royalty free); failure of foreign courts to recognize and enforce judgments of contract breach and damages issued by courts in the United States; and/or challenges pending before foreign competition agencies to the pricing and integration of additional features and functionality into our chipset products. Particularly in China, certain licensees have disputed or underreported royalties owed to us under their license agreements with us, and certain companies have yet to enter into or delayed entering into license agreements for their use of our intellectual property, and such licensees and/or companies may continue to do so in the future. Additionally, although our license agreements provide us with the right to audit the books and records of licensees, audits can be expensive, time consuming, incomplete and subject to dispute. Further, certain licensees may not comply with the obligation to provide full access to their books and records. To the extent we do not aggressively enforce our rights under our license agreements, licensees may not comply with their existing license agreements, and to the extent we do not aggressively pursue unlicensed companies to enter into license agreements with us for their use of our intellectual property, other unlicensed companies may not enter into license agreements.

We may need to litigate in the United States, China, India or elsewhere in the world to enforce our contract and/or intellectual property rights, protect our trade secrets or determine the validity and scope of proprietary rights of others. As a result of any such litigation, we could lose our ability to enforce one or more patents, portions of our license agreements could be determined to be invalid or unenforceable (which may in turn result in other licensees either not complying with their existing license agreements and/or initiating litigation) and/or we could incur substantial unexpected operating costs. Any action we take to enforce our contract or intellectual property rights could be costly and could absorb significant management time and attention, which, in turn, could negatively impact our operating results. Further, even a positive resolution to our enforcement efforts may take time to conclude, which may reduce our revenues in the period prior to conclusion.

***The continued and future success of our licensing programs can be impacted by the deployment of other technologies in place of technologies based on CDMA, OFDMA and their derivatives; the need to extend certain existing license agreements that are expiring and/or to cover additional later patents; and/or the success of our licensing programs for 4G single mode products and emerging industry segments.***

Although we own a very strong portfolio of issued and pending patents related to GSM, GPRS, EDGE, OFDM, OFDMA, WLAN, MIMO and other technologies, our patent portfolio licensing program in these areas is less established and might not be as successful in generating licensing revenues as our CDMA licensing program has been. Many wireless

operators are investigating, have selected or have deployed OFDMA-based LTE as their next-generation 4G technology in existing (or future if not yet deployed) wireless spectrum bands as complementary to their existing CDMA-based networks. While 3G/4G multimode products are generally covered by our existing 3G licensing agreements, products that implement 4G but do not also implement 3G are generally not covered by these agreements. Although we believe that our patented technology is essential and useful to implementation of the LTE industry standards and have granted royalty-bearing licenses to more than 155 companies (including Alcatel-Lucent, Huawei, LG, Microsoft, Samsung, Sony Mobile and ZTE) that have realized that they need a license to our patents to make and sell products implementing 4G standards but not implementing 3G standards, it may be difficult to agree on material terms and/or conditions of new license agreements that are acceptable to us with companies that are currently unlicensed, particularly in China. Further, the royalty rates for single mode 4G products are generally lower than our royalty rates for 3G and 3G/4G multimode products have been, and therefore, we might not achieve the same licensing revenues on such LTE products as on 3G and 3G/4G multimode products. In addition, new connectivity and other services are emerging that rely on devices that may or may not be used on traditional cellular networks, such as devices used in the connected home or the Internet of Things. We also seek to diversify and broaden our technology licensing programs to new industry segments in which we can utilize our technology leadership, such as wireless charging and other technologies. Standards, even de facto standards, that develop as these technologies mature, in particular those that do not include a base level of interoperability, may impact our ability to obtain royalties that are equivalent to those that we receive for 3G and 3G/4G multimode products used in cellular communications. Although we believe that our patented technology is essential and useful to the commercialization of such services, the royalties we receive may be lower than those we receive from our current licensing program.

Over the long-term, we need to continue to evolve our patent portfolio. If we do not maintain a strong portfolio that is applicable to current and/or future products and/or services, our future licensing revenues could be negatively impacted.

The licenses granted to and from us under a number of our license agreements include only patents that are either filed or issued prior to a certain date and, in a small number of agreements, royalties are payable on those patents for a specified time period. As a result, there are agreements with some licensees where later patents are not licensed by or to us and/or royalties are not owed to us under such license agreements after the specified time period. Additionally, certain license agreements are effective for a specified term. In order to license or to obtain a license to such later patents or after the expiration of a specified term, or to receive royalties after the specified time period, we will need to extend or modify such license agreements or enter into new license agreements with such licensees. We might not be able to modify those license agreements, or enter into new license agreements, in the future without affecting the material terms and conditions of our license agreements with such licensees, and such modifications or new agreements may negatively impact our revenues. If there is a delay in renewing a license agreement prior to its expiration, there would be a delay in our ability to recognize revenues related to that licensee's product sales. Further, if we are unable to reach agreement on such modifications or new agreements, it could result in patent infringement litigation with such companies.

***We are subject to government regulations and policies. Our business may suffer as a result of new or changed laws, regulations or policies, our failure or inability to comply with laws, regulations or policies or adverse rulings in enforcement or other proceedings.***

Our business, products and services, and those of our customers and licensees, are subject to various laws and regulations globally, as well as government policies and the specifications of international, national and regional communications standards bodies. The adoption of new laws, regulations or policies, changes in the interpretation of existing laws, regulations or policies, changes in the regulation of our activities by a government or standards body and/or adverse rulings in court, regulatory, administrative or other proceedings relating to such laws, regulations or policies, including, among others, those affecting licensing practices, competitive business practices, the use of our technology or products, protection of intellectual property, trade, foreign investments or loans, spectrum availability and license issuance, adoption of standards, the provision of device subsidies by wireless operators to their customers, taxation, privacy and data protection, environmental protection or employment, could have an adverse effect on our business.

We are currently subject to various governmental investigations and/or proceedings, and certain matters are described more fully in this Annual Report in "Notes to Consolidated Financial Statements, Note 7. Commitments and Contingencies." The unfavorable resolution of one or more of these matters could have a material adverse effect on our business, results of operations, financial condition and/or cash flows. Depending on the type of matter, various remedies that could result from an unfavorable resolution include, among others, injunctions, monetary damages or fines or other orders to pay money, and the issuance of orders to cease certain conduct and/or modify our business practices.

Delays in government approvals or other governmental activities that could result from, among others, a decrease in or a lack of funding for certain agencies or branches of the government and/or political changes, could result in our incurring

higher costs, could negatively impact our ability to timely consummate strategic transactions and/or could have other negative impacts on our business and the businesses of our customers and licensees.

National, state and local environmental laws and regulations affect our operations around the world. These laws may make it more expensive to manufacture, have manufactured and sell products, and our costs could increase if our vendors (e.g., third-party manufacturers or utility companies) pass on their costs to us.

Regulations in the United States require that we determine whether certain materials used in our products, referred to as conflict minerals, originated in the Democratic Republic of the Congo (DRC) or an adjoining country, or were from recycled or scrap sources. The verification and reporting requirements, in addition to customer demands for conflict free sourcing, impose additional costs on us and on our suppliers and may limit the sources or increase the prices of materials used in our products. Further, if we are unable to determine that our products are “DRC conflict free,” we may face challenges with our customers that place us at a competitive disadvantage, and our reputation may be harmed.

Laws, regulations and standards relating to corporate governance, business conduct, public disclosure and health care are complex and changing and may create uncertainty regarding compliance. Laws, regulations and standards are subject to varying interpretations in many cases, and their application in practice may evolve over time. As a result, our efforts to comply may fail, particularly if there is ambiguity as to how they should be applied in practice. New laws, regulations and standards or evolving interpretations of legal requirements may cause us to incur higher costs as we revise current practices, policies and/or procedures and may divert management time and attention to compliance activities.

***Our research, development and other investments in new technologies, products and services may not generate operating income or contribute to future operating results that meet our expectations.***

Our industry is subject to rapid technological change, evolving industry standards and frequent new product introductions, and we must make substantial research, development and other investments, such as acquisitions, in new products, services and technologies to compete successfully. Technological innovations generally require significant research and development efforts before they are commercially viable. Our future growth significantly depends on third parties incorporating our technology, products and/or services into new device types used in industries beyond traditional cellular communications, such as automotive, connected home and wearable uses. Accordingly, we intend to continue to make substantial investments in developing new products, services and technologies that we believe can create stand-alone value and/or contribute to the success of our existing businesses. However, it is possible that these initiatives will not be successful and/or will not result in meaningful revenues or generate operating income that meets expectations. As a result, we may develop products that fail to meet our customers’ needs and/or develop products that may become obsolete and be replaced by competitors’ products offering more compelling features, technologies or costs.

While we continue to focus our development efforts primarily in support of 3G CDMA- and 4G OFDMA-based technologies, we innovate across a broad spectrum of opportunities to deploy new business models and enter into new industry segments by leveraging our existing technical and business expertise and/or through acquisitions. Our recent investment initiatives relate to, among others, products for the connected home and the Internet of Things; automotive; networking; mobile computing; small cells and addressing the challenge of meeting the increased demand for data; very high speed connectivity; data centers; mobile health; wireless charging; and machine learning, including robotics.

Our research, development and other investments in new technologies, products or services may not succeed due to, among others: improvements in alternate technologies in ways that reduce the advantages we anticipate from our investments; competitors’ products or services being more cost effective, having more capabilities or fewer limitations or being brought to market faster than our new products and services; and competitors having longer operating histories in industry segments that are new to us. We may also underestimate the costs of or overestimate the future operating income and/or margins that could result from these investments, and these investments may not, or may take many years to, generate material returns. If our new technologies, products or services are not successful, or are not successful in the time frame we anticipate, we may incur significant costs and/or asset impairments, our business may not grow as anticipated, our revenues and/or margins may be negatively impacted and/or our reputation may be harmed.

***We depend on a limited number of third-party suppliers for the procurement, manufacture and testing of our products. If we fail to execute supply strategies that provide supply assurance, technology leadership and low cost, our operating results and our business may be harmed. We are also subject to order and shipment uncertainties that could negatively impact our operating results.***

Our QCT segment utilizes a fabless production model, which means that we do not own or operate foundries for the production of silicon wafers from which our integrated circuits are made. We employ both turnkey and two-stage manufacturing models to purchase our integrated circuits. Turnkey is when our foundry suppliers are responsible for

delivering fully assembled and tested integrated circuits. Under the two-stage manufacturing model, we purchase die in singular or wafer form from semiconductor manufacturing foundries and contract with separate third-party suppliers for manufacturing services such as wafer bump, probe, assembly and final test. The third-party semiconductor manufacturing foundries that supply products to our QCT segment are primarily located in Asia. The following could have an adverse effect on our ability to meet customer demands and/or negatively impact our revenues, business operations, profitability and/or cash flows:

- a reduction, interruption, delay or limitation in our product supply sources;
- a failure by our suppliers to procure raw materials or to provide or allocate adequate manufacturing or test capacity for our products;
- our suppliers' inability to react to shifts in product demand or an increase in raw material or component prices;
- the loss of a supplier or the inability of a supplier to meet performance or quality specifications or delivery schedules; and/or
- additional expense and/or production delays as a result of qualifying a new supplier and commencing volume production or testing in the event of a loss of or a decision to add or change a supplier.

While we have established alternate suppliers for certain technologies, we rely on sole- or limited-source suppliers for certain products, subjecting us to significant risks, including: possible shortages of raw materials or manufacturing capacity; poor product performance; and reduced control over delivery schedules, manufacturing capability and yields, quality assurance, quantity and costs. To the extent we have established alternate suppliers, these suppliers may require significant levels of support to bring complex technologies to production. As a result, we may invest a significant amount of effort and resources and incur higher costs to support and maintain such alternate suppliers. Further, any future consolidation of foundry suppliers could increase our vulnerability to sole- or limited-source arrangements and reduce our suppliers' willingness to negotiate pricing, which could negatively impact our ability to achieve cost reductions and/or increase our manufacturing costs. Our arrangements with our suppliers may obligate us to incur costs to manufacture and test our products that do not decrease at the same rate as decreases in pricing to our customers. Our ability, and that of our suppliers, to develop or maintain leading process technologies, including transitions to smaller geometry process technologies, and to effectively compete with the manufacturing processes and performance of our competitors, could impact our ability to introduce new products and meet customer demand, could increase our costs (possibly decreasing our margins) and could subject us to the risk of excess inventories. Our inability to meet customer demand due to sole- or limited-sourcing and/or the additional costs that we incur because of these or other supply constraints or because of the need to support alternate suppliers could negatively impact our business, our revenues and our results of operations.

Although we have long-term contracts with our suppliers, many of these contracts do not provide for long-term capacity commitments. To the extent we do not have firm commitments from our suppliers over a specific time period or for any specific quantity, our suppliers may allocate, and in the past have allocated, capacity to the production and testing of products for their other customers while reducing or limiting capacity to manufacture or test our products. Accordingly, capacity for our products may not be available when we need it or at reasonable prices. To the extent we do obtain long-term capacity commitments, we may incur additional costs related to those commitments and/or make non-refundable payments for capacity commitments that are not used.

One or more of our suppliers or potential alternate suppliers may manufacture CDMA- or OFDMA-based integrated circuits that compete with our products. In this event, the supplier could elect to allocate raw materials and manufacturing capacity to their own products and reduce or limit deliveries to us to our detriment. In addition, we may not receive reasonable pricing, manufacturing or delivery terms. We cannot guarantee that the actions of our suppliers will not cause disruptions in our operations that could harm our ability to meet our delivery obligations to our customers or increase our cost of sales.

Additionally, we place orders with our suppliers using our forecasts of customer demand, which are based on a number of assumptions and estimates, and are generally only partially covered by commitments from our customers. If we overestimate customer demand, we may experience increased excess and/or obsolete inventory, which would negatively impact our operating results.

***Claims by other companies that we infringe their intellectual property could adversely affect our business.***

From time to time, companies have asserted, and may again assert, patent, copyright and other intellectual property rights against our products or products using our technologies or other technologies used in our industry. These claims have resulted and may again result in our involvement in litigation. We may not prevail in such litigation given, among other

factors, the complex technical issues and inherent uncertainties in intellectual property litigation. If any of our products or services were found to infringe on another company's intellectual property rights, we could be subject to an injunction or be required to redesign our products or services, which could be costly, or to license such rights and/or pay damages or other compensation to such other company. If we are unable to redesign our products or services, license such intellectual property rights used in our products or services or otherwise distribute our products through a licensed supplier, we could be prohibited from making and selling such products or providing such services. In any potential dispute involving other companies' patents or other intellectual property, our chipset foundries, semiconductor assembly and test providers and customers could also become the targets of litigation. We are contingently liable under certain product sales, services, license and other agreements to indemnify certain customers against certain types of liability and/or damages arising from qualifying claims of patent infringement by products or services sold or provided by us. Reimbursements under indemnification arrangements could have an adverse effect on our results of operations. Furthermore, any such litigation could severely disrupt the supply of our products and the businesses of our chipset customers and their customers, which in turn could hurt our relationships with them and could result in a decline in our chipset sales and/or reductions in our licensees' sales, causing a corresponding decline in our chipset and/or licensing revenues. Any claims, regardless of their merit, could be time consuming to address, result in costly litigation, divert the efforts of our technical and management personnel or cause product release or shipment delays, any of which could have an adverse effect on our operating results.

We expect that we may continue to be involved in litigation and may have to appear in front of administrative bodies (such as the United States International Trade Commission) to defend against patent assertions against our products by companies, some of whom are attempting to gain competitive advantage or leverage in licensing negotiations. We may not be successful in such proceedings, and if we are not, the range of possible outcomes is very broad and may include, for example, monetary damages, royalty payments and/or an injunction on the sale of certain of our integrated circuit products (and on the sale of our customers' devices using such products). A negative outcome in any such proceeding could severely disrupt the business of our chipset customers and their wireless operator customers, which in turn could harm our relationships with them and could result in a decline in our worldwide chipset sales and/or a reduction in our licensees' sales to wireless operators, causing corresponding declines in our chipset and/or licensing revenues.

A number of other companies have claimed to own patents applicable to products implementing various CDMA-based standards, TDMA-based standards such as GSM and OFDMA-based standards. In addition, existing standards continue to evolve, and new standards, including those applicable to new industry segments, continue to be developed. If future standards diminish, or fail to include, a base level of interoperability, our business may be harmed, and our investments in these new segments may not succeed.

***We may engage in acquisitions or strategic transactions or make strategic investments that could adversely affect our financial results or fail to enhance stockholder value.***

We engage in acquisitions and strategic transactions and make strategic investments, which are important to our business strategy, with the goal of maximizing stockholder value. We acquire businesses and other assets, including patents, technology, wireless spectrum and other intangible assets, enter into joint ventures or other strategic transactions and purchase minority equity interests in or make loans to companies that may be private and early-stage. Our strategic activities are generally focused on opening new or expanding opportunities for our technologies and supporting the design and introduction of new products and services (or enhancing existing products or services) for voice and data communications. Many of our acquisitions or strategic investments entail a high degree of risk and require the use of domestic and/or foreign capital, and investments may not become liquid for several years after the date of the investment, if at all. Our acquisitions or strategic investments may not generate financial returns or result in increased adoption or continued use of our technologies, products or services. In some cases, we may be required to consolidate or record our share of the earnings or losses of companies in which we have acquired ownership interests. In addition, we may record impairment charges related to our acquisitions or strategic investments. Any losses or impairment charges that we incur related to strategic investments or other transactions will have a negative impact on our financial results, and we may continue to incur new or additional losses related to strategic assets or investments that we have not fully impaired or exited.

Achieving the anticipated benefits of business acquisitions depends in part upon our ability to integrate the acquired businesses in an efficient and effective manner. The integration of companies that have previously operated independently involves significant challenges, including, among others: retaining key employees; successfully integrating new employees, business systems, technology and products; retaining customers and suppliers of the acquired business; consolidating research and development and/or supply operations; minimizing the diversion of management's attention from ongoing business matters; and consolidating corporate and administrative infrastructures. We may not derive any commercial value from acquired technologies or products or from future technologies or products based on the acquired technologies, and we may be subject to liabilities that are not covered by indemnification protection that we may obtain, or we may become subject

to litigation. Additionally, we may not be successful in expanding into geographic regions and/or categories of products served by or adjacent to an acquired business or in addressing potential new opportunities that may arise out of the combination. In part due to our inexperience with technologies and/or products of and/or geographic regions served by acquired businesses, we may underestimate the costs and/or overestimate the benefits, including product and other synergies and growth opportunities that we expect to realize, and we may not achieve them. If we do not achieve the anticipated benefits of business acquisitions, our results of operations may be adversely affected, and we may not enhance stockholder value by engaging in these transactions.

***If we are unsuccessful in executing our Strategic Realignment Plan, our business and results of operations may be adversely affected.***

On July 22, 2015, we announced a Strategic Realignment Plan designed to improve execution, enhance financial performance and drive profitable growth as we work to create sustainable long-term value for stockholders. As part of this Strategic Realignment Plan, among other actions, we are implementing a cost reduction plan, which includes a series of targeted reductions across our businesses, particularly in our semiconductor business, QCT, and a reduction to our annual share-based compensation grants in fiscal 2016. We expect these cost reduction initiatives to be fully implemented by the end of fiscal 2016. Additional information regarding our Strategic Realignment Plan is provided in this Annual Report in “Notes to Consolidated Financial Statements, Note 10. Strategic Realignment Plan.”

We cannot provide assurance that our Strategic Realignment Plan will be successful, that anticipated cost savings will be realized, that our operations, business and financial results will improve and/or that these efforts will not disrupt our operations (beyond what is intended). Our ability to achieve the anticipated cost savings and other benefits within the expected time frames is subject to many estimates and assumptions, which are subject to significant economic, competitive and other uncertainties, some of which are beyond our control. Further, we may experience delays in the timing of these efforts and/or higher than expected or unanticipated costs in implementing them. Moreover, changes in the size, alignment or organization of our workforce could adversely affect employee morale and retention, relations with customers and business partners, our ability to develop and deliver products and services as anticipated and/or impair our ability to realize our current or future business and financial objectives. If we do not succeed in these efforts, if these efforts are more costly or time-consuming than expected, if our estimates and assumptions are not correct, if we experience delays or if other unforeseen events occur, our business and results of operations may be adversely affected.

***Our stock price and earnings are subject to substantial quarterly and annual fluctuations and to market downturns.***

Our stock price and earnings have fluctuated in the past and are likely to fluctuate in the future. Factors that may have a significant impact on the market price of our stock and/or earnings include those identified throughout this “Risk Factors” section, volatility of the stock market in general and technology-based companies in particular, announcements concerning us, our suppliers, our competitors or our customers and variations between our actual results or guidance and expectations of securities analysts, among others. Further, increased volatility in the financial markets and/or overall economic conditions may reduce the amounts that we realize in the future on our cash equivalents and/or marketable securities and may reduce our earnings as a result of any impairment charges that we record to reduce recorded values of marketable securities to their fair values.

In the past, securities class action litigation often has been brought against a company following periods of volatility in the market price of its securities. Due to changes in our stock price, we may be the target of securities litigation in the future. Securities litigation could result in substantial uninsured costs and divert management’s attention and our resources.

***There are risks associated with our indebtedness.***

Our outstanding indebtedness and any additional indebtedness we incur may have negative consequences, including, among others:

- requiring us to use cash to pay the principal of and interest on our indebtedness, thereby reducing the amount of cash flow available for other purposes;
- limiting our ability to obtain additional financing for working capital, capital expenditures, acquisitions, stock repurchases, dividends or other general corporate and other purposes;
- limiting our flexibility in planning for, or reacting to, changes in our business and our industry; and/or
- increasing our vulnerability to interest rate fluctuations to the extent a portion of our debt has variable interest rates.

Our ability to make payments of principal of and interest on our indebtedness depends upon our future performance, which is subject to general economic conditions, industry cycles and financial, business and other factors, many of which are

beyond our control. If we are unable to generate sufficient cash flow from operations in the future to service our debt, we may be required to, among other things: repatriate funds to the United States at substantial tax cost; refinance or restructure all or a portion of our indebtedness; reduce or delay planned capital or operating expenditures; or sell selected assets. Such measures might not be sufficient to enable us to service our debt. In addition, any such financing, refinancing or sale of assets might not be available on economically favorable terms or at all, and if prevailing interest rates at the time of any such financing and/or refinancing are higher than our current rates, interest expense related to such financing and/or refinancing would increase. If there are adverse changes in the ratings assigned to our debt securities by credit rating agencies, our borrowing costs, our ability to access debt in the future and/or the terms of the financing could be adversely affected.

***We may not be able to attract and retain qualified employees.***

Our future success depends largely upon the continued service of our executive officers and other key management and technical personnel and on our ability to continue to identify, attract, retain and motivate them, particularly in an environment of cost reductions, including equity compensation and headcount. Implementing our business strategy requires specialized engineering and other talent, as our revenues are highly dependent on technological and product innovations. The market for employees in our industry is extremely competitive. Further, existing immigration laws make it more difficult for us to recruit and retain highly skilled foreign national graduates of universities in the United States, making the pool of available talent even smaller. If we are unable to attract and retain qualified employees, our business may be harmed.

***Currency fluctuations could negatively affect future product sales or royalty revenues, harm our ability to collect receivables or increase the U.S. dollar cost of our products or the activities of our foreign subsidiaries and strategic investments.***

Our customers sell their products throughout the world in various currencies. Our consolidated revenues from international customers as a percentage of our total revenues were greater than 90% during each of the last three fiscal years. Adverse movements in currency exchange rates may negatively affect our business and our operating results due to a number of factors, including, among others:

- Our products and those of our customers and licensees that are sold outside the United States may become less price-competitive, which may result in reduced demand for those products and/or downward pressure on average selling prices;
- Certain of our revenues, such as royalties, that are derived from licensee or customer sales denominated in foreign currencies could decrease;
- Our foreign suppliers may raise their prices if they are impacted by currency fluctuations, resulting in higher than expected costs and lower margins; and/or
- Foreign exchange hedging transactions that we engage in to reduce the impact of currency fluctuations may require the payment of structuring fees, limit the U.S. dollar value of royalties from licensees' sales that are denominated in foreign currencies, cause earnings volatility if the hedges do not qualify for hedge accounting and expose us to counterparty risk if the counterparty fails to perform.

***Global economic conditions that impact the mobile communications industry could negatively affect the demand for our products and services and our customers' or licensees' products and services, which may negatively affect our revenues.***

A decline in global economic conditions or a slow-down in economic growth, particularly in geographic regions with high concentrations of wireless voice and data users, could have adverse, wide-ranging effects on demand for our products and for the products and services of our customers or licensees, particularly equipment manufacturers or others in the wireless communications industry who buy their products, such as wireless operators. Any prolonged economic downturn may result in a decrease in demand for our products or technologies; the insolvency of key suppliers; delays in reporting and/or payments from our licensees and/or customers; failures by counterparties; and negative effects on wireless device inventories. In addition, our customers' ability to purchase or pay for our products and services and network operators' ability to upgrade their wireless networks could be adversely affected by economic conditions, leading to a reduction, cancellation or delay of orders for our products or services.

***Failures in our products or services or in the products or services of our customers or licensees, including those resulting from security vulnerabilities, defects or errors, could harm our business.***

The use of devices containing our products to access untrusted content creates a risk of exposing the system software in those devices to viral or malicious attacks. While we continue to focus on this issue and are taking measures to safeguard our products from cybersecurity threats, device capabilities continue to evolve, enabling more data and processes, such as mobile computing, and increasing the risk of security failures. Further, our products are inherently complex and may contain defects



or errors that are detected only when the products are in use. As our chipset product complexities increase, we are required to migrate to integrated circuit technologies with smaller geometric feature sizes. The design process interface in new domains of technology is complex and adds risk to manufacturing yields and reliability. Further, manufacturing, testing, marketing and use of our products and those of our customers and licensees entail the risk of product liability. Because our products and services are responsible for critical functions in our customers' products and/or networks, security failures, defects or errors in our products and services could have an adverse impact on us, on our customers and on the end users of our customers' products. Such adverse impact could include product liability claims or recalls, write-offs of our inventories and/or intangible assets; unfavorable purchase commitments; a shift of business to our competitors; a decrease in demand for connected devices and wireless services, damage to our reputation and to our customer relationships and other financial liability or harm to our business.

***Our business and operations could suffer in the event of security breaches.***

Attempts by others to gain unauthorized access to our information technology systems are increasingly more sophisticated. These attempts, which might be related to industrial or other espionage, include covertly introducing malware to our computers and networks and impersonating authorized users, among others. We seek to detect and investigate all security incidents and to prevent their recurrence, but in some cases, we might be unaware of an incident or its magnitude and effects. While we have identified several incidents of unauthorized access, to date none have caused material damage to our business. The theft, unauthorized use or publication of our intellectual property and/or confidential business information could harm our competitive position, reduce the value of our investment in research and development and other strategic initiatives and/or otherwise adversely affect our business. To the extent any security breach results in inappropriate disclosure of our customers' or licensees' confidential information, we may incur liability. We expect to continue to devote resources to the security of our information technology systems.

***Potential tax liabilities could adversely affect our results of operations.***

We are subject to income taxes in the United States and numerous foreign jurisdictions, including Singapore where our QCT segment's non-United States headquarters is located. Significant judgment is required in determining our provision for income taxes. Although we believe that our tax estimates are reasonable, the final determination of tax audits and any related litigation could materially differ from amounts reflected in our historical income tax provisions and accruals. In such case, our income tax provision and results of operations in the period or periods in which that determination is made could be negatively affected.

We have tax incentives in Singapore provided that we meet specified employment and other criteria, and as a result of expiration of these incentives, our Singapore tax rate is expected to increase in fiscal 2017 and again in fiscal 2027. If we do not meet the criteria required to retain such incentives, our Singapore tax rate could increase prior to those dates, and our results of operations could be adversely affected.

Tax rules may change in a manner that adversely affects our future reported financial results or the way we conduct our business. For example, we consider the operating earnings of certain non-United States subsidiaries to be indefinitely reinvested outside the United States based on our current needs for those earnings to be reinvested offshore as well as estimates that future domestic cash generated from operations and/or borrowings will be sufficient to meet future domestic cash needs for the foreseeable future. No provision has been made for United States federal, state or foreign taxes that may result from future remittances of the undistributed earnings of these foreign subsidiaries. Our future financial results and liquidity may be adversely affected if tax rules regarding unrepatriated earnings change, if domestic cash needs require us to repatriate foreign earnings, if the shares of these foreign subsidiaries were sold or otherwise transferred or if the United States international tax rules change as part of comprehensive tax reform or other tax legislation. If our effective tax rates were to increase, particularly in the United States or Singapore, our operating results, cash flows and/or financial condition could be adversely affected.

**Item 1B. Unresolved Staff Comments**

None.