

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

FORM 10-K

S ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
FOR THE FISCAL YEAR ENDED DECEMBER 31, 2017

OR

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

For the transition period from to
Commission File Number: 000-22671

QUICKLOGIC CORPORATION

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of
incorporation or organization)

77-0188504

(I.R.S. Employer
Identification Number)

**1277 Orleans Drive
Sunnyvale, CA 94089**

(Address of principal executive offices, including zip code)

Registrant's telephone number, including area code: **(408) 990-4000**

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

Title of Each Class

Common Stock, \$0.001 par value

Name of Exchange on which Registered

The NASDAQ Stock Market LLC

Securities registered pursuant to Section 12(g) of the Act: **None**
(Title of Class)

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes ☐ No ☒

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act.

Yes ☐ No ☒

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

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

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

Large accelerated filer ☐ Accelerated Filer ☒

Non-accelerated filer ☐ (Do not check if a smaller reporting company) Smaller Reporting Company ☐

Emerging growth company ☐

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

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes ☐ No ☒

The aggregate market value of voting stock held by non-affiliates of the registrant as of July 2, 2017, the registrant's most recently completed second fiscal quarter, was \$109,361,499 based upon the last sales price reported for such date on the Nasdaq Global Market. For purposes of this disclosure, shares of common stock held by

[Table of Contents](#)

persons who hold more than 5% of the outstanding shares of common stock and shares held by executive officers and directors of the registrant have been excluded in that such persons may be deemed to be affiliates. This determination is not necessarily conclusive.

At March 2, 2018, the registrant had 80,570,538 shares of common stock outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Item 1 of Part 1 of this Form 10-K, Item 5 of Part II of this Form 10-K and Items 10, 11, 12, 13 and 14 of Part III of this Form 10-K incorporate information by reference from the Proxy Statement for the registrant's Annual Meeting of Stockholders to be held on or about April 25, 2018, the "Proxy Statement". Except with respect to the information specifically incorporated by reference in this Form 10-K, the Proxy Statement is not deemed to be filed as part hereof.

QUICKLOGIC CORPORATION

TABLE OF CONTENTS

| | <u>Page</u> |
|------------------------|--|
| <u>PART I</u> | |
| Item 1. | Business |
| Item 1A. | Risk Factors |
| Item 1B. | Unresolved Staff Comments |
| Item 2. | Properties |
| Item 3. | Legal Proceedings |
| Item 4. | Mine Safety Disclosures |
| <u>PART II</u> | |
| Item 5. | Market for the Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities |
| Item 6. | Selected Financial Data |
| Item 7. | Management's Discussion and Analysis of Financial Condition and Results of Operations |
| Item 7A. | Quantitative and Qualitative Disclosures About Market Risk |
| Item 8. | Financial Statements and Supplementary Data |
| Item 9. | Changes in and Disagreements with Accountants on Accounting and Financial Disclosure |
| Item 9A. | Controls and Procedures |
| Item 9B. | Other Information |
| <u>PART III</u> | |
| Item 10. | Directors, Executive Officers and Corporate Governance |
| Item 11. | Executive Compensation |
| Item 12. | Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters |
| Item 13. | Certain Relationships, Related Transactions and Director Independence |
| Item 14. | Principal Accounting Fees and Services |
| <u>PART IV</u> | |
| Item 15. | Exhibits and Financial Statement Schedules |
| Signatures | 78 |

FORWARD-LOOKING STATEMENT

This Annual Report on Form 10-K, including the information contained in "Management's Discussion and Analysis of Financial Condition and Results of Operations", as well as information contained in "Risk Factors" in Item 1A and elsewhere in this Annual Report on Form 10-K, contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. We intend that these forward-looking statements be subject to the safe harbors created by those provisions. Forward-looking statements are generally written in the future tense and/or are preceded by words such as "will," "may," "should," "forecast," "could," "expect," "suggest," "believe," "anticipate," "intend," "plan," "future," "potential," "target," "seek," "continue," "if" or other similar words. Forward-looking statements include statements regarding (1) our revenue levels, including the commercial success of our solutions, and new products, (2) the conversion of our design opportunities into revenue, (3) our liquidity, (4) our gross profit and breakeven revenue level and factors that affect gross profit and the breakeven revenue level, (5) our level of operating expenses, (6) our research and development efforts, (7) our partners and suppliers, (8) industry and market trends, (9) our manufacturing and product development strategies and (10) our competitive position.

The forward-looking statements contained in this Annual Report involve a number of risks and uncertainties, many of which are outside of our control. Factors that could cause actual results to differ materially from projected results include, but are not limited to, risks associated with (i) the conversion of our design opportunities into revenue; (ii) the commercial and technical success of our new products and our successful introduction of products and solutions incorporating emerging technologies or standards; (iii) our dependence on our relationships with third parties to manufacture our products and solutions; (iv) our dependence upon single suppliers to fabricate and assemble our products; (v) the liquidity required to support our future operating and capital requirements; (vi) our ability to accurately estimate quarterly revenue; (vii) our expectations about market and product trends; (viii) our future plans for partnerships and collaborations; (ix) our dependence upon a few customers for a significant portion of our total revenue; (x) our ability to forecast demand for our products; (xi) our dependence on our international business operations; (xii) our ability to attract and retain key personnel; (xiii) our ability to remain competitive in our industry; and (xiv) our ability to protect our intellectual property rights. Although we believe that the assumptions underlying the forward-looking statements contained in this Annual Report are reasonable, any of the assumptions could be inaccurate, and therefore there can be no assurance that such statements will be accurate. The risks, uncertainties and assumptions referred to above that could cause our results to differ materially from the results expressed or implied by such forward-looking statements include, but are not limited to, those discussed under the heading "Risk Factors" in Part I, Item 1A hereto and the risks, uncertainties and assumptions discussed from time to time in our other public filings and public announcements. All forward-looking statements included in this document are based on information available to us as of the date hereof. In light of the significant uncertainties inherent in the forward-looking statements included herein, the inclusion of such information should not be regarded as a representation by us or any other person that the results or conditions described in such statements or our objectives and plans will be achieved. Furthermore, past performance in operations and share price is not necessarily indicative of future performance. We disclaim any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

As used herein, "QuickLogic", the "Company", "we", "our" and similar terms include QuickLogic Corporation and its subsidiaries, unless the context indicates otherwise.

PART I

ITEM 1. BUSINESS

(a) General Development of Business

QuickLogic Corporation (the "Company") was founded in 1988 and reincorporated in Delaware in 1999.

(b) Financial Information About Segments

See Item 8, "Financial Statements and Supplementary Data - Note 11 - Information Concerning Product Lines, Geographic Information, Accounts Receivable and Revenue Concentration.

Overview

QuickLogic Corporation was founded in 1988 and reincorporated in Delaware in 1999. Our vision is to transform the way people and devices interact with each other and their surroundings. Our mission is to provide innovative platforms to successfully enable our customers to develop products that fundamentally change the end-user experience. Specifically, we are a fabless semiconductor company that develops low power System on Chip, or SoCs, Field Programmable Gate Arrays, or FPGAs and embedded FPGA intellectual property. QuickLogic's products enable smartphone, wearable, hearable, tablet and Internet-of-Things or IoT device Original Equipment Manufacturers, or OEMs, to deliver highly differentiated, immersive user experiences and long battery life for their customers.

Our solutions are created from our new silicon platforms including its EOS™, ArcticLink® III, PolarPro®3, PolarPro II, PolarPro, and Eclipse II products (which together comprise our new product category). Our mature products include primarily pASIC®3 and QuickRAM® as well as programming hardware and design software. In addition to delivering our own semiconductor solutions, we have an IP business that licenses our embedded Field Programmable Gate Arrays or eFPGA technology for use in other semiconductor companies SoCs. We began delivering our eFPGA intellectual property or IP product ArcticPro™ in 2017.

Our solutions typically fall into one of three categories: Sensor Processing, Display and Visual Enhancement, and Smart Connectivity. Our solutions include a unique combination of our silicon platforms, intellectual property cores, software drivers, and in some cases, firmware, and application software. All of our silicon platforms are standard devices and must be programmed to be effective in a system. Our intellectual property that enables always-on context-aware sensor applications includes our Flexible Fusion Engine, our Sensor Manager and Communications Manager technologies as well as IP that (i) improves multimedia content, such as our Visual Enhancement Engine, or VEE, technology, and Display Power Optimizer, or DPO, technology; and (ii) implements commonly used mobile system interfaces, such as Low Voltage Differential Signaling, or LVDS, Mobile Industry Processor Interface, or MIPI, and Secure Digital Input Output, or SDIO. We provide complete solutions by first architecting the solution jointly with our customer's or ecosystem partner's engineering group, selecting the appropriate solution platform and Proven System Blocks or PSBs, providing custom logic, integrating the logic, programming the device with the PSBs and/or firmware, providing software drivers or application software required for the customer's application, and supporting the customer on-site during integration, verification and testing. In many cases, we may deliver software algorithms that have been optimized for use in a QuickLogic silicon platform.

We also work with mobile processor manufacturers, sensor manufacturers, and/or voice recognition, sensor fusion and context awareness algorithm developers in the development of reference designs, Qualified Vendor Lists, or QVLs, or "Catalog" solutions. Through reference designs that incorporate our solutions, we believe mobile processor manufacturers, sensor manufacturers, and sensor and voice algorithm companies can expand the served available market for their respective products. Furthermore, should a solution development for a processor manufacturer or sensor and/or sensor algorithm company be applicable to a set of common OEMs or Original Design Manufacturers or ODMs, we can amortize our Research and Development, or R&D, investment over that set of OEMs or ODMs. We call this type of solution a Catalog solution and we are placing a greater emphasis on developing and marketing these types of solutions.

We have changed our manufacturing strategies to reduce the cost of our silicon solution platforms to enable their use in high volume, mass customization products. Our PolarPro 3E, PolarPro II and PolarPro solution platforms include an innovative logic cell architecture, which enables us to deliver twice the programmable logic in the same die size. Our EOS S3 and ArcticLink 3 silicon platforms combine mixed signal physical functions and hard-wired logic alongside programmable logic. Our EOS S3 and ArcticLink III solution platforms are manufactured on an advanced process node where we can benefit from smaller die sizes. We typically implement sophisticated logic blocks and mixed signal functions in hard-wired logic

[Table of Contents](#)

because it is very cost-effective and energy efficient. We use small form factor packages, which are less expensive to manufacture and include smaller pin counts. Reduced pin counts result in lower costs for our customer's printed circuit board space and routing. In addition, we have dramatically reduced the time we require to program and test our devices, which has reduced our costs and lowered the capital equipment required to program and test our devices. Furthermore, our SRAM reprogrammable silicon platforms can be programmed in-system by our customers, and therefore we do not incur programming cost, lowering the overall cost of ownership to our customers. We expect to continue to invest in silicon solution platforms and manufacturing technologies that make us cost and power consumption effective for high-volume, battery-powered applications.

Our ArcticPro eFPGA IP are currently developed on 65nm and 40nm process nodes, and in 2017, we ported and taped out a test chip in 22nm fully depleted silicon-on-insulator, or FDSOI, technology. The licensable IP is generated by a compiler tool that enables licensees to create an eFPGA block that they can integrate into their SoC without significant involvement by QuickLogic. We believe this flow would enable a scalable support model for QuickLogic.

In addition to working directly with our customers, we partner with other companies that are experts in certain technologies to develop additional intellectual property, reference platforms and system software to provide application solutions. We also work with mobile processor manufacturers and companies that supply sensor, algorithms and applications. The depth of these relationships varies depending on the partner and the dynamics of the end market being targeted, but is typically a co-marketing relationship that includes joint account calls, promotional activities and/or engineering collaboration and developments, such as reference designs. For our sensor processing solutions, we collaborate with sensor manufacturers to ensure interface compatibility. We also collaborate with sensor software companies, helping them optimize their software technology on our silicon platforms in terms of performance, power consumption and user experience.

For our eFPGA strategy, we work with semiconductor manufacturing partners to ensure our eFPGA IP is proven for a given foundry and process node before it is licensed to a SoC company.

In order to grow our revenue from its current level, we depend upon increased revenue from our new products including existing new product platforms, eFPGA IP and platforms currently in development. We expect our business growth to be driven mainly by our silicon solutions and eFPGA IP and, therefore, our revenue growth needs to be strong enough to enable us to sustain profitability while we continue to invest in the development, sales and marketing of our new solution platforms, IP and software. New products contributed 48% of total revenue for the year ended December 31, 2017, as compared to 49% in 2016 and 63% in 2015.

Available Information

Our corporate headquarters are located at 1277 Orleans Drive, Sunnyvale, California 94089. We can be reached at (408) 990-4000, and our website address is www.quicklogic.com. The information on our website is not incorporated herein by reference and is not a part of this Form 10-K. Our common stock trades on the Nasdaq Global Market under the symbol "QUIK". Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to such reports are available, free of charge, on our website home page as soon as reasonably practicable after we electronically file such materials with, or furnish them to, the Securities and Exchange Commission, or SEC. Copies of the materials filed by the Company with the SEC are also available at the Public Reference Room at 100 F Street, N.E., Washington, D.C., 20549. Information regarding the operation of the Public Reference Room is available by calling the SEC at 1-800-SEC-0330. Reports, proxy and information statements and other information regarding issues that we file electronically with the SEC are also available on the SEC's website at www.sec.gov.

Fiscal Year

Our fiscal year ends on the Sunday closest to December 31. References to fiscal years 2017, 2016 and 2015 refer to the fiscal years ended December 31, 2017, January 1, 2017 and January 3, 2016, respectively.

Industry Background

Consumer Electronics, or CE, products are a strong growth market for semiconductor products and sensor software algorithms, and the needs of this market bring a unique set of requirements. Three important trends in this market are (i) toward mobile devices, either handheld or worn on the body, (ii) an increasing adoption of sensors, and (iii) devices with wireless connectivity to the cloud. Important industry trends affecting the large market for mobile devices include the need for high bandwidth that enables the same user experience consumers are accustomed to on the personal computer, or PC, such as internet browsing, social networking and streaming video, product miniaturization and the need to increase battery life. Increased local computing power in mobile devices, coupled with more ubiquitous wireless access to the cloud and lower cost sensors has been enabling the development of more intelligent software applications and consumer use cases. Many of these product requirements were, and continue to be, driven by innovations from the Smartphone, Wearables and Hearables solutions that OEMs are launching in conjunction with Google Android and Real-Time operating systems, as well as Apple iPhone, Apple iPad, Apple Watch and Apple Earbuds.

While advances in cost-effective cloud storage and power-efficient wireless technology have enabled consumer device manufacturers to enhance device connectivity and offload some processing to the cloud, there continues to be a trend for feature-rich mobile devices to suffer from shorter battery lives. This challenge places a burden on the designers and manufacturers of these mobile CE products as they try to tailor multiple products with limited engineering resources. Lastly, the fast pace at which consumer taste for these features changes exacerbates the development challenges and risks in launching successful products to the marketplace.

Another important trend is shrinking product life cycles. This drives a need for faster and lower risk product development. There is intense pressure on the bill of materials, or BOM, cost of these devices, including per unit component costs and non-recurring development costs. As more people experience the advantages of a mobile lifestyle at home, they demand the same advantages in their professional lives. We believe that the trend toward mobile, handheld products that have a PC-like and cloud user experience, small form factor and maximize battery life will be prominent in the computing, industrial, medical and military markets. One such example is the trend of Smartphone and Tablet makers to offer the new, smaller form factor Wearables.

We believe these industry trends are shifting the demand among different classes of core silicon. The following are the four main classes of non-memory core silicon:

- Microcontrollers, or MCUs, are typically small, low power devices on a single integrated circuit that contain a processor core, memory and a number of peripherals. They are designed to be programmed with software for embedded applications;
- Application Specific Standard Products, or ASSPs, other than processors, are fixed function devices designed to address a relatively narrow set of applications. These devices typically integrate a number of common peripherals or functions and the functionality of these devices is fixed prior to wafer fabrication;
- Programmable Logic Devices, or PLDs, are general-purpose devices, which can be used by a variety of electronic systems manufacturers and are customized after purchase for a specific application. FPGAs are a subset of PLDs and are typically used to implement complex system functions; and
- Application Specific Integrated Circuits, or ASICs, are custom devices designed and fabricated to meet the needs of one specific application for one end-customer. Structured ASICs, a sub-category of ASICs, provide a limited amount of custom content to broaden the applicability of a device for additional applications.

ASSPs are offered broadly to the market, making it challenging for a system designer to create differentiated products from these devices alone. In many situations, the available ASSPs may not directly implement the desired function and the system designer is required to use a combination of ASSPs to achieve the desired result at the expense of increased cost, product size and power consumption. As standards evolve or new standards are developed, ASSPs may not be available to implement desired functions.

System designers can customize their products using programmable logic ASICs or MCUs. The competitive dynamic between these classes of core silicon are well understood. High development risks, development costs and opportunity costs are incurred when using ASICs to produce custom devices with very low unit production cost. Suppliers of programmable logic devices, which have lower development and market risks and development costs relative to ASICs, have aggressively reduced

the unit cost of their products over time, making programmable logic devices the solution of choice for custom products unless the volume is very high. These cost reduction efforts have significantly increased the volume required to justify the total cost of an ASIC.

Consumer devices incorporate complex, rapidly changing technology, require rapid product proliferation, and have short product life and development cycles. Therefore, most mobile designers design their products from a base platform, or reference design, provided to them by the vendor of the processor they have selected for their design. To differentiate their products from their competition, OEMs and ODMs may require some level of customization at either the hardware or software level. Designers have only a few viable options to modify the base platform for their needs. Since mobile system designers require very low power consumption to maximize battery life in their applications, the high power consumption of conventional FPGAs is incompatible with their design goals. This effectively limits the average mobile system designer to ASSPs, small PLDs, mobile-oriented FPGAs, and MCUs to create a virtual level playing field among mobile system designers, and makes product proliferation and differentiation extremely hard to achieve. ASICs with their long development cycles, long lead times and high non-recurring development costs are only used in very high volume mainstream consumer products.

The traditional military and industrial markets are well served by existing core silicon. Much of this market uses complex ASSPs since price, power and size are not particularly critical design considerations. When there is a strong need for a custom solution in high volume applications, designers turn to an ASIC and, in low to medium volume applications, they use FPGAs. QuickLogic FPGAs have a loyal following in certain segments of these markets, particularly when instant-on, energy efficiency, high reliability or intellectual property security is important. These markets are expected to follow a typical mature product trend, as compared with the predicted growth in our business in the consumer market.

Markets and Product Technology

We market our solutions primarily to mobile device OEMs and ODMs. We have complete solutions incorporating our EOS S3, ArcticLink III S2, ArcticLink III VX and BX, PolarPro 3, PolarPro II, PolarPro, and Eclipse II solution platforms, packaging, IPs, custom logic, software drivers and our architecture consulting. We partner with target customers in our focus markets to architect and design solutions and to integrate and test our solutions in our customers' products. A solution can be based on our programmable technology, which enables customized designs, low power, flexibility, rapid time-to-market, longer time-in-market and lower total cost of ownership. From a mobile system designer's perspective, a solution's function is known and complete, and consequently can be designed into systems with a minimum amount of effort and risk. We are capable of providing complete solutions because of our investment in developing the low power IP and software required to implement specific functions, along with sensor software algorithms optimized for our architecture. Because we are involved with our customers at the definition stage of their products, we are able to architect solutions that typically have more than one IP, absorbing more functionality traditionally implemented with multiple ASSPs. In cases where our solution has multiple IPs, significant system performance or battery life improvements can be realized by enabling direct data transfers between the IPs, or by offloading more processing tasks from the host processor to our solution. In some cases, we develop the IPs and either software or firmware ourselves and, in other cases, we utilize third parties to develop the mixed signal physical layers, logic and/or software.

We market our solutions to OEMs and ODMs offering differentiated mobile products, to processor vendors wishing to expand their served available market, and to sensor manufacturers wishing to expand their ecosystems. Our target mobile markets include Tablets, Wearables, Hearables, Smartphones and IoT. Our solutions typically fall into one of three categories: Sensor Processing, Display and Visual Enhancement, or Smart Connectivity.

Our new products are also being used in applications in our traditional markets, such as data communications, instrumentation and test and military-aerospace, where customers value the low power consumption, instant-on, IP security, reliability and fast time-to-market of our products.

The fact that we use our programmable technology to customize these solutions provides two advantages over conventional ASSPs that are based on ASIC technology. Foremost is the fact that our solutions can be tailored for a specific customer's requirements. Once we have developed IPs, it is easy to combine IPs with a platform's fixed logic and utilize the remaining programmable logic to provide a unique set of features to a mobile system designer, or to add other functions to the solution, such as Universal Asynchronous Receiver Transmitter, or UARTs, keyboard scanning functions, Serial Peripheral Interface, or SPI, ports, which minimizes system size and cost, and InfraRed Data Association, or IRDA. We are able to develop these solutions from a common solution platform, and partner with system designers to implement a range of solutions, or products, that address different geographic and market requirements. By using programmable technology instead of ASIC technology, we reduce the development time, development risk and total cost of ownership and are able to bring solutions to market far more quickly than other custom silicon alternatives.

By using our silicon platforms, our IPs, our software, and our in-depth architecture knowledge, we can deliver energy efficient custom solutions that blend the benefits of traditional ASSPs with the flexibility, product proliferation, differentiation and low total cost of ownership advantages of programmable logic.

Our product technology consists of five major elements:

First, our programmable logic allows us to hardware customize our platforms. We have two distinct types of programmable logic. We have an SRAM-reprogrammable logic architecture that utilizes a standard CMOS-logic process to meet the specific needs of the sensor and I/O subsystems of mobile devices: very low standby power, low dynamic power, and in-system reprogrammable technology. Our SRAM-reprogrammable logic is the basis of our ArcticPro eFPGA IP Licensing initiative.

We also have our ViaLink programmable logic that uses proprietary and patented technology to meet the specific smart connectivity needs of the Radio Frequency, Memory and Display subsystems of mobile products: non-volatility and instant-on, very low standby power, low dynamic power, small form factor, single chip solutions that power cycle easily and quickly. Hardware customization gives our devices the ability to execute key actions faster than software implementations, and at lower power.

Second, our ArcticLink and EOS S3 solution platforms combine mixed signal physical functions, hard-wired logic and programmable logic on one device. Mixed signal capability supports the trend toward serial connectivity in mobile applications, where designers benefit from lower pin counts, simplified printed circuit board, or PCB, layouts, simplified PCB interconnect and reduced signal noise. Adding hard-wired intellectual property enables us to deliver more logic at lower cost and lower power while the programmable logic allows us to provide solutions that can be rapidly customized to differentiate products, add features and reduce system development costs. This combination of mixed signal, hard-wired logic and programmable logic enables us to deliver low cost, small form factor solutions that can be customized for particular customer or market requirements while lowering the total cost of ownership.

Third, we develop and integrate innovative IP cores, intelligent data processing IP cores, or standard interfaces used in mobile products. We offer:

- *Sensor Processing IPs* such as Flexible Fusion Engine, or FFE, Sensor Manager, or Communications Manager;
- *Display and Visual Enhancement s* such as VEE, DPO or LCD controller interfaces, LVDS and MIPI;
- *Network IPs* such as high speed Universal Asynchronous Receiver/Transmitters, or UARTs, to enable connectivity to Bluetooth devices;
- *Storage IPs* such as Secure Digital High Capacity, or SDHC; and
- *Other IPs* such as I2S, PCM, I2C, IRDA, PWM, and other general purpose interfaces.

Fourth, we develop and optimize a software framework for use in conjunction with our sensor processing silicon platforms.

Fifth, our unique customer engagement model enables us to develop complete solutions for target customers who wish to bring differentiated, mobile products to market quickly and cost-effectively. We partner with customers to define solutions specific to their requirements, and combine all of the above technologies using one of our solution platforms, proven logic IP cores, custom FPGA logic, software drivers, firmware and application software. We then work with these customers to integrate and test solutions in their systems. The benefit of providing complete solutions is that we effectively become a virtual extension of our customers' engineering organization.

Marketing, Sales and Customers

We are a sub-system integrator that monetizes solutions through silicon sales and eFPGA IP licensing. We specialize in enhancing the user experience in leading edge mobile devices and products. For our customers, we enable hardware and sensor algorithmic differentiation quickly and cost-effectively. For our partners, we expand their reach into new segments and new use cases thereby expanding the served available market for their existing devices.

[Table of Contents](#)

Our vision is to transform the way people and devices interact with each other and their surroundings. Our mission is to provide innovative platforms to successfully enable our customers to develop products that fundamentally change the end-user experience. Specifically, we develop low power SoCs, FPGAs and embedded FPGA intellectual property. QuickLogic's products enable smartphone, wearable, Hearables and IoT device OEMs to deliver highly differentiated, immersive user experiences and long battery life for their customers.

Our multi-core sensor processing products such as ArcticLink 3 S1, ArcticLink 3 S2 and EOS 3 accomplish this result with general purpose and targeted cores, which provide an extremely power-efficient approach for real-time multi-modal (vision, motion, voice, location, biometric and environmental) sensor processing independently of the cloud. Our embedded FPGA technology gives SoC developers targeted IoT endpoint applications the flexibility to make design changes post production while keeping power consumption low.

Market leading companies need to deliver new products quickly and cost-effectively. We believe our programmable technology allows us to deliver customizable solutions with low power consumption and high IP security, while meeting system performance and BOM cost requirements. We believe our solutions allow OEMs and ODMs to rapidly bring new and differentiated products to market quickly and cost-effectively. Our solutions enable energy and cost-efficient solutions on design platforms from which a range of products can be introduced.

We recognize that our markets require a range of solutions, and we intend to work with market leading companies to combine silicon solution platforms, packaging technology, sensor software algorithms, software drivers and firmware, to meet the product proliferation, high bandwidth, time-to-market, time-in-market and form factor requirements of mobile device manufacturers. We expect solutions to range from devices that include mixed signal and visual enhancement capability to devices that provide off-load engines from the host processor to save power and extend system battery life. We intend to continue to define and implement compelling solutions for our target customers and partners.

Our business model includes a focused customer strategy in which we target market-leading customers, who primarily serve the market for differentiated mobile products. Our belief is that a large majority of our revenue will continue to come from less than 100 customers as we transition to this business model. We have identified and plan to continue to identify the customers we want to serve with our solutions. We are currently in different stages of engagement with a number of these customers. We believe our solutions are resonating with our target customers who value the differentiated user experience, lower power consumption, platform design capability, rapid time-to-market, longer time-in-market and low total cost of ownership available through the use of our solutions.

We sell our products through a network of sales managers in North America, Europe and Asia. In addition to our corporate headquarters in Sunnyvale, California, we have international sales operations in China, Japan, Taiwan, South Korea and the United Kingdom. Our sales personnel and independent sales representatives are responsible for sales and application support for a given region, focusing on major strategic accounts.

Our customers typically order our products through our distributors. Currently, we have two distributors in North America and a network of sixteen distributors throughout Europe and Asia to support our international business.

We have a military, industrial and mobile product customer base that purchases our mature silicon products. We expect to continue to offer silicon devices to these customers.

One of our tier one customers, Samsung Electronics Co., Ltd. or Samsung represented 19% of our total revenue for the year ended December 31, 2017 and 33% for the year ended January 1, 2017. In addition, a significant portion of our revenue comes from sales to customers located outside of the United States. See Note 11 to the Consolidated Financial Statements for information on our revenue by geography, market segment and key customers.

In the past, there has not been a predictable seasonal pattern to our business. However, we may experience seasonal patterns in the future due to global economic conditions, the overall volatility of the semiconductor industry and the inherent seasonality of the mobile and consumer markets.

Backlog

We do not believe that backlog as of any particular date is indicative of future results. A majority of our quarterly shipments typically are booked during the quarter. Our sales are made primarily pursuant to standard purchase orders issued by OEM customers and distributors.

Competition

A number of companies offer products that compete with one or more of our products and solutions. Our competitors include: (i) suppliers of ASSPs such as Toshiba; (ii) suppliers of mobile and/or application processors; (iii) suppliers of ASICs; (iv) suppliers of mobile-oriented FPGAs such as Lattice; and (v) suppliers of low power microcontrollers such as Atmel (a subsidiary of Microchip Technology), ST Microelectronics and NXP. Our existing competitors for conventional FPGAs include suppliers of low power CPLDs and FPGAs such as Lattice, Xilinx, Intel and MicroSemi.

ASSPs offer proven functionality which reduces development time, risk and cost, but it is difficult to offer a differentiated product using standard devices, and ASSPs that meet the system design objectives are not always available. Conventional programmable logic may be used to create custom functions that provide product differentiation or make up for deficiencies in available ASSPs. PLDs require more designer input since the designer has to develop and integrate the IP and may have to develop the software to drive the IP. PLDs are more expensive and consume more power than ASSPs or ASICs, but they offer fast time-to-market and are typically reprogrammable. OEMs have adopted mobile-oriented FPGAs in the mobile product market, but offer very little in terms of hard logic blocks that may decrease power consumption or selling price to the OEM. ASICs have a large development cost and risk and a long time to market. As a result, ASICs are generally only used for single designs with very high volumes. MCUs offer extensive software flexibility, but often do not offer sensor software algorithms, the lowest power, nor any hardware flexibility. Our solutions enable custom functions and system designs with fast time-to-market and longer time-in-market since they are customized by us using our solution platforms that contain programmable logic. In addition, because they are complete solutions, they reduce the system development cost and risk. Finally, our solutions are very energy efficient because of our programmable logic and how we intelligently design our IPs. They are very suitable for OEMs or ODMs offering mobile differentiated products.

Research and Development

We are focused on developing our solutions. Our solutions combine our silicon platforms with our IPs, software drivers, and other system software. Our future success will depend largely on our ability to rapidly develop, enhance and introduce our solutions that meet emerging industry standards and satisfy changing customer requirements. We have made and expect to continue to make substantial investments in research and development. Our research and development expenses for the years ended December 31, 2017, January 1, 2017, and January 3, 2016, were \$9.6 million (79% of revenue), \$12.3 million (107% of revenue), and \$14.1 million (75% of revenue), respectively.

As of the end of 2017, our research and development staff consisted of 47 employees located in California and India.

- Our system software group creates the drivers and other system code required to connect our silicon devices to Application Processors, drivers and microcode to support our sensor hubs.
- Our platform engineering group develops low power programmable devices and system IP targeted for mobile or battery powered embedded systems that can be used in standalone solution platforms such as PolarPro 3E, or combined in solution platforms such as EOS S3.
- Our EDA software group develops the design libraries, interface routines and place and route software that allow our engineers to use third party design environments to develop designs that are incorporated into our programmable devices, and develops the design tools that support algorithm development for our sensor hubs.
- Our hardware group develops and verifies IP Blocks that can be programmed into our programmable logic and develops reference designs to showcase and verify our solutions.
- Our product engineering group oversees product manufacturing and process development with our third party foundries, and is involved in ongoing process improvements to increase yields and optimize device characteristics.

- The Office of the CTO investigates future trends and requirements in order to define the next generation of solutions and platforms.

Manufacturing

We have close relationships with third-party manufacturers for our wafer fabrication, package assembly, and testing requirements to help us ensure stability in the supply of our products and to allow us to focus our internal efforts on product and solution design and sales.

We currently outsource our wafer manufacturing, primarily to GLOBALFOUNDRIES and Taiwan Semiconductor Manufacturing Company Limited, or TSMC. We outsource our product packaging primarily to Amkor Technology, Inc. and STATS-ChipPAC. GLOBALFOUNDRIES manufactures our EOS S3 Sensor Platform in a 40 nm CMOS process, and PolarPro 3E, ArcticLink III VX and BX, and ArcticLink 3 S2 Sensor Hub, in a 65 nm CMOS process. TSMC manufactures our pASIC 3, QuickRAM and certain QuickPCI products, using a 0.35 micron complementary metal oxide semiconductor, or CMOS, process. TSMC also manufactures our Eclipse and other mature products, PolarPro III, ArcticLink 3 S1 Sensor Hub products, using a 65nm CMOS process on twelve-inch wafers. We purchased products from eSilicon, GLOBALFOUNDRIES, and TSMC on a purchase order basis.

Outsourcing of wafer manufacturing enables us to take advantage of the high volume economies of scale offered by these suppliers. We may establish additional foundry relationships as such arrangements become economically useful or technically necessary.

Employees

As of December 31, 2017, we had 89 employees worldwide. We believe our future success depends in part on our continued ability to attract, hire and retain qualified personnel. None of our employees are represented by a labor union and we believe our employee relations are favorable.

Intellectual Property

We believe that it is important to maintain a large patent portfolio to protect our innovations. We currently hold thirty-two active U.S. patents and have four pending applications for additional U.S. patents. Our patents contain claims covering various aspects of programmable integrated circuits, programmable interconnect structures and programmable metal devices. In Europe and Asia, we have been granted eleven patents and have six pending applications. Our issued patents expire between 2018 and 2035.

In most cases, revenue will decline from a decrease in demand for our mature products long before the expiration of pending or issued patents relating to the underlying technology in such products. The decision to cease maintaining a patent is made based on the importance of the patent in our current or future product offerings.

We have seven trademarks registered with the U.S. Patent and Trademark Office.

Executive Officers and Directors

Our executive officers are appointed by, and serve at the discretion of, our Board of Directors. There are no family relationships among our directors and officers.

The following table sets forth certain information concerning our current executive officers and directors as of March 2, 2018:

| Name | Age | Position |
|-----------------------|-----|--|
| Brian C. Faith | 43 | President and Chief Executive Officer; Director |
| Suping (Sue) Cheung | 54 | Chief Financial Officer and Vice President, Finance |
| Rajiv Jain | 57 | Vice President, Worldwide Operations |
| Timothy Saxe | 62 | Senior Vice President Engineering and Chief Technology Officer |
| E. Thomas Hart | 76 | Chairman of the Board |
| Andrew J. Pease | 67 | Director |
| Michael R. Farese | 71 | Director |
| Arturo Krueger | 78 | Director |
| Daniel A. Rabinovitsj | 53 | Director |
| Christine Russell | 68 | Director |
| Gary H. Tauss | 63 | Director |

Brian C. Faith joined QuickLogic in June 1996. Mr. Faith was promoted to CEO in June 2016 after having served as Vice President of Worldwide Marketing and Vice President of Worldwide Sales & Marketing between 2008 and 2016. Mr. Faith during the last 20 years has held a variety of managerial and executive leadership positions in engineering, product line management, marketing and sales. Mr. Faith has also served as the Chairman of the Marketing Committee for the CE-ATA Organization. He holds a B.S. degree in Computer Engineering from Santa Clara University and was an Adjunct Lecturer at Santa Clara University for Programmable Logic courses.

Suping (Sue) Cheung (Ph.D.) joined QuickLogic in May 2007. Dr. Cheung was promoted to Chief Financial Officer in February 2017 after having served as Vice President of Finance and Chief Accounting Officer since August 2016. Prior to this role, Dr. Cheung served as QuickLogic's Principal Accounting Officer in addition to Corporate Controller since May 2015, Corporate Controller from 2008 to April 2015 and Assistant Controller from 2007 to 2008. Prior to joining QuickLogic, Dr. Cheung was a Senior Manager of SEC Reporting and Technical Accounting at Dell SonicWALL from 2006 to 2007 and was the Senior Accounting Manager at VeriFone System, Inc. from 2005 to 2006. Prior to 2005, Dr. Cheung held various senior accounting and financial management roles in both publicly traded and privately held companies. Dr. Cheung began her career with PricewaterhouseCoopers (PWC) where she served as an auditor and as a tax consultant. Dr. Cheung holds a Ph.D. in Business Administration and a Masters in Accounting from the Florida International University in Miami. She is a Certified Public Accountant.

Rajiv Jain joined QuickLogic in August 1992. Mr. Jain has served as our Vice President of Worldwide Operations since April 2014. Prior to this role, Mr. Jain served as QuickLogic's Senior Director of Operations and Development Engineering from 2011 to 2014, Senior Director of System Solutions and Process Technology from 2009 to 2011, Director of Process Technology from 1997 to 2009, and Senior Process Technologist from 1992 to 1997. Prior to joining QuickLogic, Mr. Jain was a Senior Yield Engineer at National Semiconductor from 1991 to 1992, where he focused on BiCMOS product yield improvements, and at Monolithic Memories from 1985 to 1988, where he focused on BiPolar product yield and engineering wafer sort improvements. Mr. Jain holds a Master's degree in Chemical Engineering from the University of California, Berkeley and a B.S. degree in Chemical Engineering from the University of Illinois, Champaign/Urbana.

Timothy Saxe (Ph.D.) joined QuickLogic in May 2001. Dr. Saxe has served as our Senior Vice President of Engineering and Chief Technology Officer since August 2016 and Senior Vice President and Chief Technology Officer since November 2008. Previously, Dr. Saxe has held a variety of executive leadership positions in QuickLogic including Vice President of Engineering and Vice President of Software Engineering. Dr. Saxe was Vice President of FLASH Engineering at Actel Corporation, a semiconductor manufacturing company, from November 2000 to February 2001. Dr. Saxe joined GateField Corporation, a design verification tools and services company formerly known as Zycad, in June 1983 and was a

[Table of Contents](#)

founder of their semiconductor manufacturing division in 1993. Dr. Saxe became GateField's Chief Executive Officer in February 1999 and served in that capacity until Actel Corporation acquired GateField in November 2000. Dr. Saxe holds a B.S.E.E. degree from North Carolina State University, and an M.S.E.E. degree and a Ph.D. in Electrical Engineering from Stanford University.

Information regarding the backgrounds of our directors is set forth under the caption "Proposal One, Election of Directors" in our Proxy Statement, which information is incorporated herein by reference.

ITEM 1A. RISK FACTORS

In addition to other information in this Annual Report on Form 10-K and in other filings we make with the Securities and Exchange Commission, the following risk factors should be carefully considered in evaluating our business as they may have a significant impact on our business, operating results and financial condition. If any of the following risks actually occurs, our business, financial condition, results of operations and future prospects could be materially and adversely affected. Because of the following factors, as well as other variables affecting our operating results, past financial performance should not be considered as a reliable indicator of future performance and investors should not use historical trends to anticipate results or trends in future periods.

If we fail to successfully develop, introduce and sell new products, eFPGA IP Product and other new solutions or if our design opportunities do not generate the revenue we expect, we may be unable to compete effectively in the future and our future gross margins and operating results will be lower.

The market for differentiated mobile devices is highly competitive and dynamic, with short end market product life cycles and rapid obsolescence of existing products. To compete successfully, we must obtain access to advanced fabrication capacity and dedicate significant resources to specify, design, develop, manufacture and sell new or enhanced solutions that provide increasingly higher levels of performance, low power consumption, new features, meeting current and emerging industry standards, reliability and/or cost savings to our customers. Due to the short product life cycle of these devices, our revenue is subject to fluctuation in a short period of time and our ability to grow our business depends on accelerating our design win activity. We often make significant investments in solutions, sensor algorithm software and silicon platform development, selling and marketing, long before we generate revenue, if any, from our efforts. The markets we are targeting typically have higher volumes and greater price pressure than our traditional business. In addition, we quote opportunities in anticipation of future cost reductions and may aggressively price products to gain market share. In order to react quickly to opportunities or to obtain favorable wafer prices, we make significant investments in and commitments to purchase inventories and capital equipment before we have firm commitments from customers.

We expect our business growth to be driven by new products, which currently include EOS™, ArcticLink® III, PolarPro®3, PolarPro II, PolarPro, and Eclipse II products. We also launched a business that licenses our FPGA technology for use in other semiconductor companies' SoCs and delivered our first eFPGA IP product ArcticPro™ in 2017. The new product revenue growth of our new products and eFPGA IP product needs to be strong enough to achieve profitability. The gross margin associated with our new products is generally lower than the gross margin of our mature products, due primarily to the price-sensitive nature of the higher volume mobile consumer opportunities that we are pursuing with new products and eFPGA IP product. Because the product life cycle of mobile products is short, we must replace revenue at the end of a product life cycle with sales from new design opportunities. While we expect revenue and gross profit growth from new products and eFPGA IP product will offset the expected decline in revenue and gross profit from our mature products, there is no assurance whether or when this will occur. In order to increase our revenue from its current level, we depend upon increased revenue from our existing new products, especially solutions based on our EOS S3, ArcticLink and PolarPro solution platforms, the eFPGA IP product and the development of additional new products and solutions.

If (i) we are unable to design, produce and sell new products, eFPGA IP product and solutions that meet design specifications, address customer requirements and generate sufficient revenue and gross profit; (ii) market demand for our new products, eFPGA IP product and other products fails to materialize; (iii) we are unable to obtain adequate fabrication capacity on a timely basis; (iv) we are unable to develop new silicon platforms or solutions in a timely manner; or (v) our customers do not successfully introduce products incorporating our devices, or choose a competing offering, our revenue and gross margin of the new products and eFPGA IP product will be materially harmed, which could have an overall adverse and potentially disproportionate effect on our business, results of operations and financial condition.

eFPGA IP is a new unproven market.

We have history and experience in developing, selling and supporting FPGA products and incorporating FPGA IP developed by us into our platform solutions. The eFPGA market is a developing market with unknown requirements and demand. Our current FPGA architectures and their performance may not be a good fit for the FPGA Market. The software developed by us for eFPGA may be delayed or may not meet the needs of the FPGA Market. The support required by a customer to incorporate the eFPGA may be much higher than expected which may delay new engagements or lead to high costs. The incorporated eFPGA IP may have an unexpected result in the customer's chip leading to compensation demands. The expected NRE and royalty rates we expect to charge for the eFPGA may not be competitive, which may have a material adverse effect on our business, results of operations and financial condition.

We have incurred losses in the past years since 2011 and anticipate that we will incur continued losses through at least the next year, we may not be able to generate sufficient revenue or raise additional financing to fund future losses, and we may not be able to sustain sufficient liquidity to continue to operate as a going concern.

We have experienced net losses in the past years and expect such losses to continue through at least the year ending December 30, 2018 as we continue to develop new products, applications and technologies. Our new products and products currently under development have been generating lower gross margin as a percentage of revenue than our mature products due to the markets that we have targeted and the larger order quantities associated with these applications. Whether we can achieve cash flow levels sufficient to support our operations cannot be accurately predicted, and our investment portfolio is subject to a degree of interest rate and liquidity risk. Unless such cash flow levels are achieved, in addition to the proceeds that we received on March 28, 2017 from the sale of our equity securities, and the credit line we may be able to draw down from Silicon Valley Bank under the Fourth Amendment to the Third Amended and Restated Loan and Security Agreement dated as of August 31, 2017, we may need to obtain additional funds through strategic divestiture, or sell debt or equity securities, or some combination thereof, to provide funding for our operations. Such additional funding may not be available on commercially reasonable terms, or at all.

If we are unable to generate sufficient sales from its new products or adequate funds are not available when needed, our liquidity, financial condition and operating results would be materially and adversely affected, and we may not be able to operate our business without significant changes in our operations or at all.

Our products are subject to a lengthy sales cycle and our customers may cancel or change their product plans after we have expended substantial time and resources in the design of their products.

Our customers often evaluate our products for six months or more before designing them into their systems, and they may not commence volume shipments for up to an additional six to twelve months, if at all. During this lengthy sales cycle, our potential customers may cancel or change their product plans. Customers may also discontinue products incorporating our devices at any time or they may choose to replace our products with lower cost semiconductors. In addition, we are working with leading customers in our target markets to define our future products. If customers cancel, reduce or delay product orders from us, or choose not to release products that incorporate our devices after we have spent substantial time and resources developing products or assisting customers with their product design, our revenue levels may be less than anticipated and our business, results of operations and financial condition may be materially adversely affected.

We currently depend on a limited number of significant customers, for a significant portion of our revenue and the loss of or reduction in orders from such significant customers could adversely affect our revenue and harm our business financial condition, operating results and cash flows.

A small number of end-customers represented a significant portion our total revenue in our fiscal year ended December 31, 2017. During our fourth quarter and our fiscal year ended December 31, 2017, two customers, including Samsung, accounted for 22% and 30%, respectively, of our total revenue. We expect to maintain this high level of customer concentration as we continue to market our solutions to leading manufacturers of high-volume mobile applications. As in the past, future demand from these customers may fluctuate significantly from quarter to quarter. These customers typically order products with short requested delivery lead times, and do not provide a commitment to purchase product past the period covered by purchase orders, which may be rescheduled or canceled. In addition, our manufacturing lead times are longer than the delivery lead times requested by these customers, and we make significant purchases of inventory and capital expenditures in anticipation of future demand. If revenue from any significant customer were to decline substantially, we may be unable to offset this decline with increased revenue and gross margin from other customers and we may purchase excess inventories. These factors could have a material adverse impact on our business, results of operations and financial condition.

We may make a significant investment in long-lived assets for the production of our products based upon historical and expected demand. If demand for our products or gross margin generated from our products does not meet our expectations or if we are unable to collect amounts due from significant customers, we may be required to write-off inventories, provide for uncollectible accounts receivable or incur charges against long-lived assets, which may have a material adverse effect on our business, results of operations and financial condition.

We depend upon partnering with other companies to offer voice, motion, and other solutions into our platform.

[Table of Contents](#)

In addition to working directly with our customers, we partner with other companies that are experts in certain technologies to create more complete solutions. The depth of these relationships varies depending on the partner and the dynamics of the end market being targeted, but these relationships are typically a co-marketing relationship that includes joint account calls, promotional activities and/or engineering collaboration and developments. The propriety code provided by these partners may be an integral part of the solutions that we offer our customers. If we are unable to obtain competitive pricing (NRE, royalty) and prompt quality support by our partner, our solution may not be competitive. In addition if the quality of our partner's solution does not meet our customer's requirements, it may delay or prevent the incorporation of our product by the customer. There may also be delays and additional expenses to improve or update the partner's solution to meet current market needs. If we are unable to maintain a close working relationship with our partners it would hinder our ability to continue to develop and introduce leading solutions effectively in the future, which may have a material adverse effect on our business, results of operations and financial condition.

We depend on our relationships with third parties to manufacture our new products.

We depend upon GLOBALFOUNDRIES, TSMC, Amkor and STAT-chipPAC to manufacture our new products. The inability of any one of these companies to continue manufacture of our new products for any reason would require us to identify and qualify a new foundry to manufacture our new products. This would be time consuming, difficult and result in unforeseen operational problems. Alternate foundries might not be available to fabricate our new products, or if available, might be unwilling or unable to offer services on acceptable terms and our ability to operate our business or deliver our products to our customers could be severely impaired.

We depend upon third parties for silicon IP, detailed registered-transfer level, or RTL, design, physical design, verification and assembly of our silicon platforms and any failure to meet our requirements in a timely fashion may adversely affect our time to market and revenue.

Our move to a variable cost or outsourced engineering development model allows us access to the best design resources for developing new silicon platforms. This includes access to leading edge silicon IP as well as RTL design and physical design expertise. However, outsourcing the design of a complex silicon platform typically involves multiple companies in multiple locations, which may increase the risk of costly design errors. Any delays or errors in the design of our new silicon platforms could significantly increase the cost of development as well as adversely affect our time to market, which may have a material adverse effect on our business, results of operations and financial condition.

We depend upon partnering with other companies to develop IP, reference platforms, algorithm and system software.

In addition to working directly with our customers, we partner with other companies that are experts in certain technologies to develop additional intellectual property, reference platforms, algorithms and system software to provide application solutions. We also work with mobile processor manufacturers and companies that supply sensor, storage, networking or graphics components for embedded systems. The depth of these relationships varies depending on the partner and the dynamics of the end market being targeted, but is typically a co-marketing relationship that includes joint account calls, promotional activities and/or engineering collaboration and developments, such as reference designs. If we are unable to license new technologies, maintain a close working relationship with our partners, fail to continue to develop and introduce leading technologies or if these technologies fail to generate the revenue we expect, we may not be able to compete effectively in the future, which may have a material adverse effect on our business, results of operations and financial condition.

We depend upon third parties to fabricate, assemble, test and program our products, and to provide logistics services. Any problems at these third parties could adversely affect our business, results of operations and financial condition.

We contract with third parties to fabricate, assemble, test and program our devices, and vendors for logistics. In general, each of our devices is fabricated, assembled and programmed by a single supplier, and the loss of a supplier, transfer of manufacturing to a new location, expiration of a supply agreement or the inability of our suppliers to manufacture our products to meet volume, performance, quality and cost targets could have a material adverse effect on our business. Our relationship with our suppliers could change as a result of a merger or acquisition. If for any reason these suppliers or any other vendor becomes unable or unwilling to continue to provide services of acceptable quality, at acceptable costs and in a timely manner, our ability to operate our business or deliver our products to our customers could be severely impaired. We would have to identify and qualify substitute suppliers, which could be time consuming, difficult and result in unforeseen operational problems, or we could announce an end-of-life program for these products. Alternate suppliers might not be available to fabricate, assemble, test and program our devices or, if available, might be unwilling or unable to offer services on acceptable terms. In addition, if competition for wafer manufacturing capacity increases, if we need to migrate to more advanced wafer manufacturing technology, or if competition for assembly services increases, we may be required to pay or invest significant

[Table of Contents](#)

amounts to secure access to this capacity. The number of companies that provide these services is limited and some of them have limited operating histories and financial resources. In the event our current suppliers refuse or are unable to continue to provide these services to us, or if we are unable to secure sufficient capacity from our current suppliers on commercially reasonable terms, we may be unable to procure services from alternate suppliers in a timely manner, if at all. Moreover, our reliance on a limited number of suppliers subjects us to reduced control over delivery schedules, quality assurance and costs. This lack of control may cause unforeseen product shortages or may increase our cost to manufacture and test our products.

We utilize third party logistics services, including transportation, warehouse and shipping services. These service providers are subject to interruptions that affect their ability to service us, including the availability of transportation services, disruptions related to work stoppages, volatility in fuel prices and security incidents or natural events at manufacturing, shipping or receiving points or along transportation routes.

In the event any of our third party suppliers or vendors were to experience financial, operational, production or quality assurance difficulties resulting in a reduction or interruption in supply or providing services to us, our business, results of operations and financial condition may be materially adversely affected.

If we fail to adequately forecast demand for our products, we may incur product shortages or excess product inventories.

Our agreements with certain suppliers require us to provide forecasts of our anticipated manufacturing orders, and place binding manufacturing commitments in advance of receiving purchase orders from our customers. We are limited in our ability to increase or decrease our forecasts under such agreements. Other manufacturers supply us with product on a purchase order basis. The allocation of capacity is determined solely by our suppliers, over which we have no direct control. Additionally, we may place orders with our suppliers in advance of customer orders to allow us to quickly respond to changing customer demand or to obtain favorable product costs. Furthermore, we provide our suppliers with equipment that is used to program our products to customer specifications. The programming equipment is manufactured to our specifications and has significant order lead times. These factors may result in product shortages or excess product inventories. Obtaining additional supply in the face of product, programming equipment or capacity shortages may be costly, or not possible, especially in the short-term since most of our products and programming equipment are supplied by a single supplier. If we fail to adequately forecast demand for our products, our business, the relationship with our customers, our results of operations and financial condition could be materially adversely affected.

We entered into informal partnerships with certain third parties for the development of solutions. Our business could be adversely affected if such informal partnerships fail to grow as we expected.

Our approach to developing solutions for potential customers involves developing solutions for and aligning our roadmap with application processor, sensor, and flash memory vendors. We have entered into informal partnerships with other parties that involve the development of solutions that interface with their devices or standards. These informal partnerships also may involve joint marketing campaigns and sales calls. If the informal partnerships do not grow as expected or if they are significantly reduced or terminated by acquisition or other means, our business, results of operations and financial condition could be materially adversely effected and we may be required to write-off related inventories and long-lived assets.

Our business could be adversely affected by undetected errors or defect in our products.

Difficulties encountered during the complex semiconductor manufacturing process can render a substantial percentage of semiconductor devices nonfunctional. New manufacturing techniques or fluctuations in the manufacturing process may change the performance distribution and yield of our products. We have, in the past, experienced manufacturing runs that have contained substantially reduced or no functioning devices, or that generated devices with below normal performance characteristics. Our reliance on third party suppliers may extend the period of time required to analyze and correct these problems. Once corrected, our customers may be required to redesign or re-qualify their products. As a result, we may incur substantially higher manufacturing costs, shortages of inventories or reduced customer demand.

Yield fluctuations frequently occur in connection with the manufacture of newly introduced products, with changes in product architecture, with manufacturing at new facilities, on new fabrication processes or in conjunction with new backend manufacturing processes. Newly introduced solutions and products are often more complex and more difficult to produce, increasing the risk of manufacturing related defects. New manufacturing facilities or processes are often more complex and take a period of time to achieve expected quality levels and manufacturing efficiencies. While we test our products, including our software development tools, they may still contain errors or defects that are found after we have commenced commercial production. Undetected errors or defects may also result from new manufacturing processes or when new intellectual property is incorporated into our products. If our products or software development tools contain undetected or unresolved defects, we

[Table of Contents](#)

may lose market share, experience delays in or loss of market acceptance, reserve or scrap inventories or be required to issue a product recall. In addition, we would be at risk of product liability litigation if defects in our products were discovered. Although we attempt to limit our liability to end users through disclaimers of special, consequential and indirect damages and similar provisions, we cannot assure you that such limitations of liability will be legally enforceable.

We may be unable to accurately estimate quarterly revenue, which could adversely affect the trading price of our stock.

Due to our relatively long product delivery cycle and the inability of our customers in the rapidly evolving mobile market to confirm product requirements on a timely basis, we may have low visibility to product demand or estimated revenue in any given quarter. If our customers cannot provide us with accurate delivery lead times, we may not be able to deliver product to our customers in a timely fashion. Furthermore, our ability to respond to increased demand is limited to inventories on hand or on order, the capacity available at our contract manufacturers and our capacity to program products to customer specifications. If we fail to accurately estimate customer demand, or if our available capacity is less than needed to meet customer demand, we may not be able to accurately estimate our quarterly revenue, which may have a material adverse effect on our results of operations and financial condition, and our stock price could be materially fluctuate as a result.

We will be unable to compete effectively if we fail to anticipate product opportunities based upon emerging technologies and standards or fail to develop products and solutions that incorporate these technologies and standards in a timely manner.

We spend significant resources designing and developing silicon solution platforms, IP and software and reference designs, and adopting emerging technologies. We intend to develop additional products and solutions and to adopt new technologies in the future. If system manufacturers adopt alternative standards or technologies, if an industry standard or emerging technology that we have targeted fails to achieve broad market acceptance, if customers choose low power offerings from our competitors, or if we are unable to bring the technologies or solutions to market in a timely and cost-effective manner, we may be unable to generate significant revenue from our research and development efforts. As a result, our business, results of operations and financial condition could be materially adversely affected, and we may be required to write-off related inventories and long-lived assets.

The semiconductor business is subject to downward price pressure.

The market for our products has been characterized by declining selling prices, and we anticipate that our average selling prices will decrease in future periods, although the timing and amount of these decreases cannot be predicted with any certainty. The pricing pressure in the semiconductor industry in past years has been due to a large number of factors, many of which were not easily foreseeable, such as currency crisis, industry-wide excess manufacturing capacity, weak economic growth, the slowdown in capital spending that followed the "dot-com" collapse, the reduction in capital spending by telecom companies and satellite companies, and the effects of the tragic events of terrorism on September 11, 2001. Similar to past years, recent unfavorable economic conditions have resulted in a tightening of the credit markets. If signs of improvement in the global economy do not progress as expected and global economic conditions worsen, we may experience a decline in our average selling prices. In addition, our competitors have in the past, and may again in the future, lower prices in order to increase their market share. Continued downward price pressure in the industry may harm our competitive position and materially and adversely affect our financial condition, cash flows, and results of operations.

Our future operating results are likely to fluctuate and therefore may fail to meet expectations, which could cause our stock price to decline.

Our operating results have varied widely in the past and are likely to do so in the future. In addition, our past operating results may not be an indicator of future operating results.

Factors that could cause our operating results to fluctuate include, without limitation: (i) successful development and market acceptance of our products and solutions; (ii) our ability to accurately forecast product volumes and mix, and to respond to rapid changes in customer demand; (iii) changes in sales volume or expected sales volume, product mix, average selling prices or production variances that affect gross profit; (iv) the effect of end-of-life programs; (v) a significant change in sales to, or the collectability of accounts receivable from, our largest customers; (vi) our ability to adjust our product features, manufacturing capacity and costs in response to economic and competitive pressures; (vii) our reliance on subcontract manufacturers for product capacity, yield and quality; (viii) our competitors' product portfolio and product pricing policies; (ix) timely implementation of efficient manufacturing technologies; (x) errors in applying or changes in accounting and corporate governance rules; (xi) the issuance of equity compensation awards or changes in the terms of our stock plan or employee stock purchase plan; (xii) mergers or acquisitions; (xiii) the impact of import and export laws and regulations; (xiv) the cyclical nature of the semiconductor industry and general economic, market, political and social conditions in the

[Table of Contents](#)

countries where we sell our products and the related effect on our customers, distributors and suppliers; and (xv) our ability to obtain capital, debt financing and insurance on commercially reasonable terms. Although certain of these factors are out of our immediate control, unless we can anticipate and be prepared with contingency plans that respond to these factors, our business, results of operations and financial condition could be materially adversely affected, which could cause our stock price to significantly fluctuate or decline.

We may also encounter periods of industry wide semiconductor oversupply, resulting in pricing pressure, as well as undersupply, resulting in a risk that we could be unable to fulfill our customers' requirements. The semiconductor industry has historically been characterized by wide fluctuations in the demand for, and supply of, its products. These fluctuations have resulted in circumstances when supply of and demand for semiconductors has been widely out of balance. An industry wide semiconductor oversupply could result in severe downward pricing pressure from customers. In a market with undersupply of manufacturing capacity, we would have to compete with larger foundry and assembly customers for limited manufacturing resources. In such an environment, we may be unable to have our products manufactured in a timely manner, at a cost that generates adequate gross profit or in sufficient quantities. Since we outsource all of our manufacturing and generally have a single source of wafer supply, test, assembly and programming for our products, we are particularly vulnerable to such supply shortages and capacity limitations. As a result, we may be unable to fulfill orders and may lose customers. Any future industry wide oversupply or undersupply of semiconductors could therefore have a material adverse effect on our business, results of operations and financial condition.

We may be unable to successfully grow our business if we fail to compete effectively with others to attract and retain our executive officers, and other key management or technical personnel.

We believe our future success depends upon our ability to attract and retain highly competent personnel. Our employees are at-will and not subject to employment contracts. We could potentially lose the services of any of our senior management personnel at any time due to a variety of factors that could include, without limitation, death, incapacity, military service, personal issues, retirement, resignation or competing employers. Our ability to execute current plans could be adversely affected by such a loss. We may fail to attract and retain qualified technical, sales, marketing and managerial personnel required to continue to operate our business successfully. Personnel with the expertise necessary for our business are scarce and competition for personnel with proper skills is intense.

In addition, new hires frequently require extensive training before they achieve desired levels of productivity. Additionally, attrition in personnel can result from, among other things, changes related to acquisitions, retirement and disability. We may not be able to retain existing key technical, sales, marketing and managerial employees or be successful in attracting, developing or retaining other highly-qualified technical, sales, marketing and managerial personnel, particularly at such times in the future as we may need to fill a key position. If we are unable to continue to develop and retain existing executive officers or other key employees or are unsuccessful in attracting new highly-qualified employees, our financial condition, cash flows, and results of operations could be materially and adversely affected.

We may have increasing difficulty attracting and retaining qualified outside board members.

The directors and management of publicly traded corporations are increasingly concerned with the extent of their personal exposure to lawsuits and shareholder claims, as well as governmental and creditor claims that may be made against them in connection with their positions with publicly held companies. Outside directors are becoming increasingly concerned with the availability of directors' and officers' liability insurance to pay on a timely basis the costs incurred in defending shareholder claims. Directors' and officers' liability insurance is expensive and difficult to obtain. The SEC and the NASDAQ Stock Market have also imposed higher independence standards and certain special requirements on directors of public companies. Accordingly, it may become increasingly difficult to attract and retain qualified outside directors to serve on our board of directors.

Our company's global operations are subject to risks and uncertainties.

Most of our products are manufactured outside of the United States at manufacturing facilities operated by our suppliers in Asia and South Asia.

A significant portion of our total revenue comes from sales to customers located outside the United States. We anticipate that sales to customers located outside the United States will continue to represent a significant portion of our total revenue in future periods. In addition, most of our domestic customers sell their products outside of North America, thereby indirectly exposing us to risks associated with foreign commerce and economic instability. In addition to overseas sales offices, we have significant research and development activities in India.

[Table of Contents](#)

International operations are subject to certain risks inherent in conducting business outside the U.S., such as changes in currency exchange rates, tax laws, price and currency exchange controls, export and import restrictions, environmental regulations, protection of intellectual property rights, nationalization, expropriation and other governmental action. Accordingly, our operations and revenue are subject to a number of risks associated with foreign commerce, including the following: (i) staffing and managing foreign offices; (ii) managing foreign distributors; (iii) collecting amounts due; (iv) political and economic instability; (v) foreign currency exchange fluctuations; (vi) changes in tax laws, import and export regulations, tariffs and freight rates; (vii) timing and availability of export licenses; (viii) supplying products that meet local environmental regulations; and (ix) inadequate protection of intellectual property rights. In addition, we incur costs in foreign countries that may be difficult to reduce quickly because of employee related laws and practices in those foreign countries. Our global operations also may be adversely affected by political events and domestic or international terrorist events and hostilities. Current events, including the recent U.S. presidential election, the United Kingdom's vote to exit the European Union, potential changes in immigration policies and tax reform proposals, create a level of uncertainty for multi-national companies. As U.S. companies continue to expand globally, increased complexity exists due to the possibility of renegotiated trade deals, revised international tax law treaties, and changes to the U.S. corporate tax code. These uncertainties could have a material adverse effect on our business and our results of operations and financial condition. As we continue to expand our business globally, our success will depend, in part, on our ability to anticipate and effectively manage these and other risks.

Exchange rate fluctuations could adversely affect our company's results of operations and financial condition.

We denominate sales of our products to foreign countries exclusively in U.S. dollars. As a result, any increase in the value of the U.S. dollar relative to the local currency of a foreign country will increase the price of our products in that country so that our products become relatively more expensive to customers in their local currency which may cause sales of our products in that foreign country to decline. If the local currency of a foreign country in which we conduct business strengthens against the U.S. dollar, our payroll and other local expenses will be higher, and since sales are transacted in U.S. dollars, would not be offset by any increase in revenue. To the extent any such risks materialize, our business, results of operations and financial condition could be materially adversely affected.

Our solutions face competition from suppliers of ASSPs, suppliers of integrated application processors, low power FPGAs, low power MCUs, suppliers of ASICs, and suppliers of sensor algorithm software whose software is running on competitors' devices.

We face competition from companies that offer ASSPs. While it is difficult to provide a unique solution through the use of ASSPs, ASSPs generally are cost-effective standard products with short lead times. In certain design opportunities, ASSPs can be combined to achieve system design objectives. Manufacturers of integrated application processors often integrate new features when they introduce new products. A system designer could elect the use of an integrated processor that includes the features offered in our solutions and/or a widely accepted feature of our solutions could be integrated into a competitor's ASSP. Some vendors offer low power FPGAs that can be adopted by a mobile device for hardware differentiation that is similar in functionality, physical size, power consumption and price to what we offer with our programmable logic-based solutions. We also face competition from low power MCU companies. While MCUs cannot be customized at the hardware level for product differentiation, they do have the ability to run custom software algorithms written in standard C code, which may yield similar functionality as what we can provide with our products. Companies that supply ASICs, which may be purchased for a lower price at higher volumes and typically have greater logic capacity, additional features and higher performance than our products. In addition, we face competition from companies that provide sensor algorithm software, which may be licensed directly by an OEM, or licensed for use through an MCU company. If we are unable to successfully compete with companies that supply ASSPs, lower power FPGAs, MCUs, ASICs or sensor algorithm software in any of the following areas, our business, results of operations and financial condition will be materially adversely affected: (i) the development of new products, solutions and advanced manufacturing technologies; (ii) the quality, power characteristics, performance characteristics, price and availability of devices, programming hardware and software development tools; (iii) the ability to engage with companies that provide synergistic products and services, including algorithms that may be preloaded into our device at configuration; (iv) the incorporation of industry standards in our products and solutions; (v) the diversity of product offerings available to customers; and (vi) the quality and cost-effectiveness of design, development, manufacturing and marketing efforts.

Our industry is in the midst of a consolidation phase which could result in stronger and better resourced competitors in the markets in which the company competes.

Mergers and acquisitions activity is at a high level in the semiconductor industry, as large companies have perceived attractive opportunities in today's market to acquire new technologies and product lines by buying smaller companies. If our

[Table of Contents](#)

small and mid-sized competitors become targets of M&A activity and some of them are actually acquired by larger companies with much greater resources than us, we would face heightened competition that could result in lost sales and eroded margins.

Litigation could adversely impact our consolidated financial position.

We have been and may be in the future involved in various litigation matters arising in the ordinary course of business, including, but not limited to, litigation relating to employment matters, commercial transactions, intellectual property matters, contracts, environmental matters and matters related to compliance with governmental regulations. Litigation is inherently uncertain and unpredictable. The potential risks and uncertainties include, but are not limited to, such factors as the costs and expenses of litigation and the time and attention required of management to attend to litigation. An unfavorable resolution of any particular legal claim or proceeding, and/or the costs and expenses incurred in connection with a legal claim or proceeding, could have a material and adverse effect on our results of operations and financial condition.

We may be unable to adequately protect our intellectual property rights and may face significant expenses as a result of future litigation.

Protection of intellectual property rights is crucial to our business, since that is how we keep others from copying our innovations and those of third parties that are central to our existing and future products. From time to time, we receive letters alleging patent infringement or inviting us to license other parties' patents. We evaluate these requests on a case-by-case basis. These situations may lead to litigation if we reject the offer to obtain the license.

In the past, we have been involved in litigation relating to our alleged infringement of third party patents or other intellectual property rights. This type of litigation is expensive and consumes large amounts of management time and attention.

Because it is critical to our success that we continue to prevent competitors from copying our innovations, we intend to continue to seek patent and trade secret protection for our products. The process of seeking patent protection can be long and expensive, and we cannot be certain that any currently pending or future applications will actually result in issued patents or that, even if patents are issued, they will be of sufficient scope or strength to provide meaningful protection or any commercial advantage to us. Furthermore, others may develop technologies that are similar or superior to our technology or design around the patents we own. We also rely on trade secret protection for our technology, in part through confidentiality agreements with our employees, consultants and other third parties. However, these parties may breach these agreements and we may not have adequate remedies for any breach. In any case, others may come to know about or determine our trade secrets through a variety of methods. In addition, the laws of certain territories in which we develop, manufacture or sell our products may not protect our intellectual property rights to the same extent as the laws of the United States.

The market price of our common stock may fluctuate significantly and could lead to securities litigation.

Stock prices for many companies in the technology and emerging growth sectors have experienced wide fluctuations that have often been unrelated to the operating performance of such companies. In the past, securities class action litigation has often been brought against companies following periods of volatility in the market price of its securities. In the future, we may be the subject of similar litigation. Securities litigation could result in substantial costs and divert management's attention.

We may engage in manufacturing, distribution or technology agreements that involve numerous risks, including the use of cash, erosion of margins due to royalty obligations or revenue sharing and diversion of resources.

We have entered into and, in the future, intend to enter into agreements that involve numerous risks, including the use of significant amounts of our cash; royalty obligations or revenue sharing; diversion of resources from other development projects or market opportunities; our ability to collect amounts due under these contracts; and market acceptance of related products and solutions. If we fail to recover the cost of these or other assets from the cash flow generated by the related products, our assets will become impaired and our results of operations and financial condition could be materially adversely affected.

Our business is subject to the risks of earthquakes, other catastrophic events and business interruptions for which we may maintain limited insurance.

Our operations and the operations of our suppliers are vulnerable to interruption by fire, earthquake, power loss, flood, terrorist acts and other catastrophic events beyond our control. In particular, our headquarters are located near earthquake fault lines in the San Francisco Bay Area. In addition, we rely on certain suppliers to manufacture our products and would not be able to qualify an alternate supplier of our products for several quarters. Our suppliers often hold significant quantities of our

[Table of Contents](#)

inventories, which, in the event of a disaster, could be destroyed. In addition, our business processes and systems are vulnerable to computer viruses, break-ins and similar disruptions from unauthorized tampering. Any catastrophic event, such as an earthquake or other natural disaster, the failure of our computer systems or networks, including due to computer viruses, security breaches, war or acts of terrorism, could significantly impair our ability to maintain our records, pay our suppliers, or design, manufacture or ship our products and could subject us to third party liabilities. The occurrence of any of these events could also affect our customers, distributors and suppliers and produce similar disruptive effects upon their business. If there is an earthquake or other catastrophic event near our headquarters, our customers' facilities, our distributors' facilities or our suppliers' facilities, our business could be seriously harmed.

We do not maintain sufficient business interruption and other insurance policies to compensate us for all losses that may occur. Any losses or damages incurred by us as a result of a catastrophic event or any other significant uninsured loss could have a material adverse effect on our business.

There may be some potential effects of system outages or data security breaches, which could adversely affect our operations, financial results or reputation.

We face risks from electrical or telecommunications outages, computer hacking or other general system failure. We rely heavily on our internal information and communications systems and on systems or support services from third parties to manage our operations efficiently and effectively. Any of these are subject to failure. System-wide or local failures that affect our information processing could have a material adverse effect on our business, financial condition, results of operations and cash flows. In addition, a system failure or data security breach could also result in the unintentional disclosure of confidential information about us, our customers or our employees, which could result in our incurring costs for remedial or preventative actions, damage our reputation with customers and reduce demand for our products and services. Further, insurance coverage does not generally protect from normal wear and tear, which can affect system performance. Any applicable insurance coverage for an occurrence could prove to be inadequate. Coverage may be or become unavailable or inapplicable to any risks then prevalent.

Our Certificate of Incorporation, Bylaws and Delaware law contain provisions that could discourage a takeover that is beneficial to stockholders.

Provisions of our Certificate of Incorporation, our Bylaws and Delaware law could have the effect of discouraging takeover attempts that certain stockholders might deem to be in their interest. These anti-takeover provisions may make us a less attractive target for a takeover bid or merger, potentially depriving shareholders of an opportunity to sell their shares of common stock at a premium over prevailing market prices as a result of a takeover bid or merger.

If we do not maintain compliance with the listing requirements of the Nasdaq Global Market, our common stock could be delisted, which could, among other things, reduce the price of our common stock and the levels of liquidity available to our stockholders.

Although we are listed on the Nasdaq Global Market and our shares are currently in compliance with the listing requirements of the Nasdaq Global Market, we may not be able to meet the continued listing requirements of Nasdaq in the future, which require, among other things, a minimum bid price of \$1.00 per share for common shares listed on the exchange. While we would consider implementation of customary options, including a reverse stock split, if our common stock does not trade at the required level that regains compliance, and if we are unable to satisfy the Nasdaq criteria for maintaining our listing, our securities could be subject to delisting. As a consequence of any such delisting, our shareholders would likely find it more difficult to dispose of or to obtain accurate quotations as to the prices of our securities, and there is likely to be less liquidity in our stock. In the event of a delisting, we could face significant material adverse consequences including a limited availability of market quotations for our securities; a limited amount of news and analyst coverage for our company; and a decreased ability to issue additional securities or obtain additional financing in the future.

Changes to existing accounting pronouncements or taxation rules or practices may cause adverse revenue fluctuations, affect our reported financial results or how we conduct our business.

Generally accepted accounting principles in the United States, or GAAP, are promulgated by, and are subject to the interpretation of the Financial Accounting Standards Board, or FASB, and the SEC. New accounting pronouncements or taxation rules and varying interpretations of accounting pronouncements or taxation practices have occurred and may occur in the future. Any future changes in accounting pronouncements or taxation rules or practices may have a significant effect on how we report our results and may even affect our reporting of transactions completed before the change is effective. In addition, a review of existing or prior accounting practices may result in a change in previously reported amounts. This change to existing rules, future changes, if any, or the questioning of current practices may adversely affect our reported financial

[Table of Contents](#)

results, our ability to remain listed on the Nasdaq Global Market, or the way we conduct our business and subject us to regulatory inquiries or litigation.

If, in the future, we conclude our internal control over financial reporting is not effective, investors could lose confidence in the reliability of our financial statements, which could result in a decrease in the value of our common stock.

As directed by Section 404 of the Sarbanes-Oxley Act of 2002, the SEC adopted rules requiring public companies to include a report of management on the companies' internal control over financial reporting in their annual reports on Form 10-K, including an assessment by management of the effectiveness of the filing company's internal control over financial reporting. In addition, the independent registered public accounting firm auditing a public company's financial statements must attest to the effectiveness of the company's internal control over financial reporting. There is a risk that in the future we may identify internal control deficiencies that suggest that our controls are no longer effective. This could result in an adverse reaction in the financial markets due to a loss of confidence in the reliability of our financial statements, which could cause the market price of our common stock to decline and make it more difficult for us to finance our operations.

Both our customers and we are subject to laws, regulations and similar requirements, changes to which may adversely affect our business, results of operations and financial condition.

Both our customers and we are subject to laws, regulations and similar requirements that affect our business, results of operations and financial condition, including, but not limited to, the areas of commerce, import and export control, financial disclosures, intellectual property, income and other taxes, anti-trust, anti-corruption, labor, environmental, health and safety. Our compliance in these areas may be costly, especially in areas where there are inconsistencies between the various jurisdictions in which we operate. While we have implemented policies and procedures to comply with laws and regulations, there can be no assurance that our employees, contractors, suppliers or agents will not violate such laws and regulations or our policies. Any such violation or alleged violation could materially and adversely affect our business, financial condition, cash flows and results of operations. Any changes or potential changes to laws, regulations or similar requirements, or our ability to respond to these changes, may significantly increase our costs to maintain compliance or result in our decision to limit our business, products or jurisdictions in which we operate, any of which could materially and adversely affect our results of operations and financial condition. Federal and state regulatory agencies, including the United States Federal Communications Commission and the various state public utility commissions and public service commissions, regulate most of our domestic telecommunications customers. Similar government oversight also exists in the international market. While we may not be directly affected by this legislation, such regulation of our customers may negatively impact our business. For instance, the sale of our products may be affected by the imposition upon certain of our customers of common carrier tariffs and the taxation of telecommunications services. These regulations are continuously reviewed and changed by the various governmental agencies. Changes in current or future laws or regulations, in the United States or elsewhere, could materially and adversely affect our results of operations and financial condition.

The Dodd-Frank Wall Street Reform and Consumer Protection Act includes provisions regarding certain minerals and metals, known as conflict minerals, mined from the Democratic Republic of Congo and adjoining countries. These provisions require companies to undertake due diligence procedures and report on the use of conflict minerals in its products, including products manufactured by third parties. Compliance with these provisions has caused and will continue to cause us to incur costs to determine whether our supply chain is conflict free and we may face difficulties if our suppliers are unwilling or unable to verify the source of their materials. Our ability to source these minerals and metals may also be adversely impacted. In addition, our customers may require that we provide them with a certification and our inability to do so may disqualify us as a supplier.

We have implemented import and export control procedures to comply with United States regulations but we are still exposed to potential risks from import and export activity.

Our products, solutions, technology and software are subject to import and export control laws and regulations, which, in some instances, may impose restrictions on business activities, or otherwise require licenses or other authorizations from agencies such as the U.S. Department of State, U.S. Department of Commerce and U.S. Department of the Treasury. These restrictions may impact deliveries to customers or limit development and manufacturing alternatives. We have import and export licensing and compliance procedures in place for purposes of conducting our business consistent with U.S. and applicable international laws and regulations, and we periodically review these procedures to maintain compliance with the requirements relating to import and export regulations. If we are not able to remain in compliance with import and export regulations, we might be subject to investigation, sanctions or penalties by regulatory authorities. Such penalties can include civil, criminal or administrative remedies such as loss of export privileges. We cannot be certain as to the outcome of an evaluation, investigation, inquiry or other action or the impact of these items on our operations. Any such action could adversely affect our financial results and the market price of our common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Our principal administrative, sales, marketing, research and development and final testing facility is located in a building of approximately 34,000 square feet in Sunnyvale, California. This facility is leased through December 2018. We lease a 9,400 square foot facility in Bangalore, India for the purpose of software development. This facility is leased through June 2021. We also lease office space in Shanghai, China; in London, England; in Taipei, Taiwan; and in Seongnam City, South Korea. We believe that our existing facilities are adequate for our current needs.

ITEM 3. LEGAL PROCEEDINGS

From time to time, we are involved in legal actions arising in the ordinary course of business, including but not limited to intellectual property infringement and collection matters. Absolute assurance cannot be given that third-party assertions will be resolved without costly litigation in a manner that is not adverse to our financial position, results of operations or cash flows or without requiring royalty or other payments in the future, which may adversely impact gross profit. We are not currently a party to any material pending legal proceedings.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II**ITEM 5. MARKET FOR THE REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES****Market Information**

Our common stock has been traded on the Nasdaq Global Market under the symbol "QUIK" since October 15, 1999, the date of our initial public offering. The following table sets forth, for the periods indicated, the high and low closing sales prices for our common stock, as reported on the Nasdaq Global Market:

| | High | | Low | |
|--|------|------|-----|------|
| Fiscal Year Ended December 31, 2017: | | | | |
| Fourth Quarter (through December 31, 2017) | \$ | 1.87 | \$ | 1.48 |
| Third Quarter (through October 1, 2017) | \$ | 1.75 | \$ | 1.25 |
| Second Quarter (through July 2, 2017) | \$ | 1.72 | \$ | 1.16 |
| First Quarter (through April 2, 2017) | \$ | 2.34 | \$ | 1.15 |
| Fiscal Year Ended January 1, 2017: | | | | |
| Fourth Quarter (through January 1, 2017) | \$ | 1.51 | \$ | 0.76 |
| Third Quarter (through October 2, 2016) | \$ | 1.03 | \$ | 0.76 |
| Second Quarter (through July 3, 2016) | \$ | 1.20 | \$ | 0.89 |
| First Quarter (through April 3, 2016) | \$ | 1.62 | \$ | 1.04 |

Stockholders

The closing price of our common stock on the Nasdaq Global Market was \$1.67 per share on February 26, 2018. As of February 26, 2018 there were 80,563,053 shares of common stock outstanding that were held of record by 164 stockholders. The actual number of stockholders is greater than this number of holders of record since this number does not include stockholders whose shares are held in trust by other entities.

Dividend Policy

We have never declared or paid any dividends on our capital stock. We currently expect to retain future earnings, if any, for use in the operation and expansion of our business and do not anticipate paying any cash dividends in the foreseeable future.

Equity Compensation Plan Information

The information required by this item regarding equity compensation plans is set forth under the caption "Equity Compensation Plan Summary" in our Proxy Statement which information is incorporated by reference herein.

Stock Performance Graph

The following graph compares the cumulative total return to stockholders of our common stock from December 30, 2012 to December 31, 2017 to the cumulative total return over such period of (i) the S&P 500 Index and (ii) the S&P Semiconductors Index. The graph assumes that \$100 was invested on December 30, 2012 in QuickLogic's common stock and in each of the other two indices and the reinvestment of all dividends, if any, through December 31, 2017.

The information contained in the Performance Graph shall not be deemed to be "soliciting material" or to be "filed" with the SEC, nor shall such information be incorporated by reference into any future filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except to the extent that QuickLogic specifically incorporates it by reference into any such filing. The graph is presented in accordance with SEC requirements. Stockholders are cautioned against drawing any conclusions from the data contained therein, as past results are not necessarily indicative of future performance.

COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN*

Among QuickLogic Corporation, the S&P 500 Index
and the S&P Semiconductors Index



*\$100 invested on 12/30/12 in stock or 12/31/12 in index, including reinvestment of dividends.
Indexes calculated on month-end basis.

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| | 12/30/2012 | 12/29/2013 | 12/28/2014 | 1/3/2016 | 1/1/2017 | 12/31/2017 |
|------------------------|------------|------------|------------|----------|----------|------------|
| QuickLogic Corporation | 100.00 | 171.56 | 142.22 | 50.22 | 61.78 | 77.33 |
| S&P 500 | 100.00 | 132.39 | 150.51 | 152.59 | 170.84 | 208.14 |
| S&P Semiconductor | 100.00 | 135.94 | 183.34 | 184.95 | 236.65 | 322.60 |

The stock price performance included in this graph is not necessarily indicative of future stock price performance.

ITEM 6. SELECTED FINANCIAL DATA

| | Fiscal Years | | | | |
|--|-------------------|-----------------|-----------------|-------------------|-------------------|
| | 2017 | 2016 | 2015 | 2014 | 2013 |
| (in thousands, except per share amount) | | | | | |
| Statements of Operations: | | | | | |
| Revenue | \$ 12,149 | \$ 11,421 | \$ 18,956 | \$ 27,845 | \$ 26,072 |
| Cost of revenue | 6,627 | 7,648 | 11,411 | 16,796 | 17,305 |
| Gross profit | 5,522 | 3,773 | 7,545 | 11,049 | 8,767 |
| Operating expenses: | | | | | |
| Research and development | 9,572 | 12,265 | 14,144 | 12,186 | 8,375 |
| Selling, general and administrative | 9,900 | 10,310 | 10,619 | 11,663 | 12,002 |
| Restructuring costs ⁽¹⁾ | — | — | 295 | — | 181 |
| Loss from operations | (13,950) | (18,802) | (17,513) | (12,800) | (11,791) |
| Gain on sale of TowerJazz Semiconductor Ltd. shares ⁽²⁾ | — | — | — | — | 181 |
| Interest expense | (115) | (175) | (82) | (85) | (54) |
| Interest income and other expense, net | 21 | (106) | (107) | (126) | (157) |
| Loss before income taxes | (14,044) | (19,083) | (17,702) | (13,011) | (11,821) |
| Provision for income taxes | 87 | 65 | 146 | 68 | 455 |
| Net loss | \$ (14,131) | \$ (19,148) | \$ (17,848) | \$ (13,079) | \$ (12,276) |
| Net loss per share: | | | | | |
| Basic | \$ (0.18) | \$ (0.29) | \$ (0.32) | \$ (0.23) | \$ (0.27) |
| Diluted | \$ (0.18) | \$ (0.29) | \$ (0.32) | \$ (0.23) | \$ (0.27) |
| Weighted average shares: | | | | | |
| Basic | 77,291 | 65,377 | 56,472 | 55,401 | 45,762 |
| Diluted | 77,291 | 65,377 | 56,472 | 55,401 | 45,762 |
| | December 31, 2017 | January 1, 2017 | January 3, 2016 | December 28, 2014 | December 29, 2013 |
| (in thousands) | | | | | |
| Balance Sheet Data: | | | | | |
| Cash and cash equivalents | \$ 16,527 | \$ 14,870 | \$ 19,136 | \$ 30,050 | \$ 37,406 |
| Working capital | \$ 12,619 | \$ 9,042 | \$ 19,132 | \$ 33,395 | \$ 37,801 |
| Total assets | \$ 24,636 | \$ 21,844 | \$ 28,461 | \$ 41,139 | \$ 49,126 |
| Long-term obligations, excluding current portion | \$ 369 | \$ 49 | \$ 2,341 | \$ 1,267 | \$ 254 |
| Total stockholders' equity | \$ 14,878 | \$ 11,988 | \$ 20,325 | \$ 35,567 | \$ 40,598 |

(1) We incurred restructuring costs of \$295,000 and \$181,000 in 2015 and 2013, respectively. In 2015, we implemented a restructuring plan to re-align the organization to support our sensor processing provider business model and growth strategy. The expenses in 2013 relate to the Company's effort to consolidate and streamline its engineering organization.

(2) During the second quarter of 2013, we sold our remaining 42,970 ordinary shares of TowerJazz, which reflect the 1-to-15 reverse stock split. This sale resulted in a gain of \$181,000.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion of our financial condition and results of operations should be read in conjunction with the financial statements and related notes included in this Annual Report on Form 10-K. This discussion may contain forward-looking statements based upon current expectations that involve risks and uncertainties including those discussed under Part I, Item 1A, "Risk Factors." These risks and uncertainties may cause actual results to differ materially from those discussed in the forward-looking statements.

Overview

We enable OEMs to maximize battery life for highly differentiated, immersive user experiences with Smartphone, Wearable, Hearable, Tablet and IoT devices. We deliver these benefits through industry leading ultra-low power customer programmable SoC semiconductor solutions, embedded software, and algorithm solutions for always-on voice and sensor processing, and enhanced visual experiences. In addition to our delivering our own semiconductor solutions, we have an IP business that licenses our FPGA technology for use in other semiconductor companies SoCs.

We are also a fabless semiconductor company that designs, markets, and supports primarily silicon solutions, as well as Field Programmable Gate Arrays, or FPGAs, software drivers, associated design software and programming hardware, and, eFPGA IP called ArcticPro and ArcticPro 2. Our solutions are created from our new silicon platforms including our EOS™, ArcticLink® III, PolarPro®3, PolarPro II, PolarPro, and Eclipse II products (which together comprise our new product category). Our mature products include primarily pASIC®3 and QuickRAM® as well as programming hardware and design software.

Our solutions typically fall into one of three categories: Sensor Processing, Display and Visual Enhancement, and Smart Connectivity. Our solutions include a unique combination of our silicon platforms, IP, custom logic, software drivers, and in some cases, firmware, and application software. All of our silicon platforms are standard devices and must be programmed to be effective in a system. Our IPs range from that those enable always-on context-aware sensor applications, such as our FFE, and our Sensor Manager and Communications Manager technologies, to IP that (i) improves multimedia content, such as our VEE technology, and DPO; and (ii) implements commonly used mobile system interfaces, such as LVDS, MIPI, and SDIO. We provide complete solutions by first architecting the solution jointly with our customer's or ecosystem partner's engineering group, selecting the appropriate solution platform and IPs, providing custom logic, integrating the logic, programming the device with the IPs and/or firmware, providing software drivers or application software required for the customer's application, and supporting the customer on-site during integration, verification and testing.

We also work with mobile processor manufacturers, sensor manufacturers, and/or voice recognition, sensor fusion and context awareness algorithm developers in the development of reference designs, QVLs, or "Catalog" solutions. Through reference designs that incorporate our solutions, we believe mobile processor manufacturers, sensor manufacturers, and sensor algorithm companies can expand the served available market for their respective products. Furthermore, should a solution development for a processor manufacturer or sensor and/or sensor algorithm company be applicable to a set of common OEMs or ODMs, we can amortize our R&D investment over that set of OEMs/ODMs. We call this type of solution a Catalog solution and we are placing a greater emphasis on developing and marketing these types of solutions.

In order to grow our revenue from its current level, we depend upon increased revenue from our new products including existing new product platforms, eFPGA IP and platforms currently in development. We expect our business growth to be driven by silicon solutions and eFPGA IP and therefore our solutions revenue growth needs to be strong enough to enable us to sustain profitability while we continue to invest in the development, sales and marketing of our new solution platforms and IPs. The gross margin associated with our solutions is generally lower than the gross margin of our FPGA products, which is primarily due to the price sensitive nature of the higher volume mobile consumer opportunities that we are pursuing with our solutions. The gross margin from our eFPGA IP licensing is generally higher than the gross margins of our semiconductor device due to the nature of IP having a lower cost of sales.

In order to grow and diversify our revenue from its current level, we are partnering with Tier 1 foundries to license our eFPGA software tool in addition to the sale of our new and existing products. We are expecting revenue growth from eFPGA IP licensing starting in fiscal year 2018.

We continue to seek to expand our revenue, including pursuing high-volume sales opportunities in our target market segments, by providing solutions incorporating our intellectual property, or industry standard interfaces. Our industry is characterized by intense price competition and by lower margins as order volumes increase. While winning large volume sales

opportunities will increase our revenue, we believe these opportunities may decrease our gross profit as a percentage of revenue.

During 2017, we generated total revenue of \$12.1 million, which represents a 6% increase from 2016. Our new product revenue during 2017 was \$5.9 million, which represents a 4% increase from 2016, while our mature product revenue during 2017 was \$6.3 million, which represents a 9% increase from 2016. We shipped our new products into four of our targeted mobile market segments: Smartphones, Wearables, Mobile Enterprise, and Tablets. Overall, we reported a net loss of \$14.1 million for 2017 compared to a net loss of \$19.1 million for 2016.

We have experienced net losses in the recent years and expect such losses to continue through at least the year ending December 30, 2018 as we continue to develop new products, applications and technologies. Whether we can achieve cash flow levels sufficient to support our operations cannot be accurately predicted. Unless such cash flow levels are achieved in addition to the proceeds we received from our recent sale of our equity securities, we may need to borrow additional funds or sell debt or equity securities, or some combination thereof, to provide funding for our operations, and such additional funding may not be available on commercially reasonable terms, or at all.

Critical Accounting Policies and Estimates

The methods, estimates and judgments we use in applying our most critical accounting policies have a significant impact on the results we report in our consolidated financial statements. The SEC has defined critical accounting policies as those that are most important to the portrayal of our financial condition and results of operations and require us to make our most difficult and subjective judgments, often as a result of the need to make estimates of matters that are inherently uncertain. Based on this definition, our critical policies include revenue recognition including sales returns and allowances, valuation of inventories including identification of excess quantities and product obsolescence, allowance for doubtful accounts, valuation of long-lived assets, measurement of stock-based compensation and accounting for income taxes. We believe that we apply judgments and estimates in a consistent manner and that such consistent application results in consolidated financial statements and accompanying notes that fairly represent all periods presented. However, any factual errors or errors in these judgments and estimates may have a material impact on our financial statements.

Revenue Recognition

We supply standard products that must be programmed before they can be used in an application. Our products may be programmed by us, distributors, end-customers or third parties.

We recognize revenue as products are shipped if evidence of an arrangement exists, delivery has occurred, the sales price is fixed or determinable, collection of the resulting receivable is reasonably assured and product returns are reasonably estimable. Revenue is recognized upon shipment of programmed and unprogrammed parts to both OEM customers and distributors, provided that legal title and risk of ownership have transferred. Parts held by distributors may be returned for quality reasons only under our standard warranty policy. See Note 2 to the Consolidated Financial Statements for our standard warranty policy. We record an allowance for sales returns. Amounts recorded for sales returns were not material for the year ended December 31, 2017, and \$93,000 and \$19,000 for the years ended January 1, 2017 and January 3, 2016, respectively.

The Company accounts for its Intellectual Property or IP license revenues and related services in accordance with Financial Accounting Standard Board or FASB Accounting Standards Codification or ASC No. 985-605, *Software Revenue Recognition*. Revenues are recognized when persuasive evidence of an arrangement exists and no further obligation exists, delivery has occurred, the license fee is fixed or determinable, and collection is reasonably assured. A license may be perpetual or time limited in its application. The Company's IP license agreement contains multiple elements including post-contract customer support. For multiple element arrangements involving software and other software-related deliverables, vendor-specific objective evidence of fair value ("VSOE") must exist to allocate the total fee among all delivered and non-essential undelivered elements of the arrangement. If undelivered elements of the arrangement are essential to the functionality of the product, revenue is deferred until the essential elements are delivered. If VSOE does not exist for one or more non-essential undelivered elements, revenue is deferred until such evidence exists for the undelivered elements, or until all elements are delivered, whichever is earlier. VSOE of each element is based on historical evidence of stand-alone sales of these elements to third parties including substantive renewal rate as stated in the agreement. When VSOE does not exist for undelivered items, the entire arrangement fee is recognized ratably over the performance period.

Valuation of Inventories

Inventories are stated at the lower of standard cost or net realizable value. Standard cost approximates actual cost on a first-in, first-out basis. We routinely evaluate quantities and values of our inventories in light of current market conditions and market trends and record reserves for quantities in excess of demand and product obsolescence. The evaluation may take into consideration historic usage, expected demand, anticipated sales price, the stage in the product life cycle of our customers' products, new product development schedules, the effect new products might have on the sale of existing products, product obsolescence, customer design activity, customer concentrations, product merchantability and other factors. Market conditions are subject to change. Actual consumption of inventories could differ from forecasted demand and this difference could have a material impact on our gross margin and inventory balances based on additional provisions for excess or obsolete inventories or a benefit from inventories previously written down. We also regularly review the cost of inventories against estimated market value and record a lower of cost or market reserve for inventories that have a cost in excess of estimated market value, which could have a material impact on our gross margin and inventory balances based on additional write-downs to net realizable value or a benefit from inventories previously written down.

Our semiconductor products have historically had an unusually long product life cycle and obsolescence has not been a significant factor in the valuation of inventories. However, as we pursue opportunities in the mobile market and continue to develop new products, we believe our new product life cycle will be shorter, which could increase the potential for obsolescence. A significant decrease in demand could result in an increase in excess inventory on hand. Although we make every effort to ensure the accuracy of our forecasts of future product demand, due to our small customer base and limited CSSP engagements, any significant unanticipated changes in demand could have a significant impact on the value of our inventory and our results of operations.

Valuation of Long-Lived Assets

We assess annually whether the value of identifiable long-lived assets, including property and equipment, have been impaired and when events or changes in circumstances indicate that the carrying value of an asset or asset group may not be recoverable. Our assessment of possible impairment is based on our ability to recover the carrying value of an asset or asset group from their expected future pre-tax cash flows, undiscounted and without interest charges, of the related operations. If these cash flows are less than the carrying value of the asset or asset group, we recognize an impairment loss for the difference between estimated fair value and carrying value, and the carrying value of the related assets is reduced by this difference. The measurement of impairment requires management to estimate future cash flows and the fair value of long-lived assets. Based on this analysis, there are no significant impairments to our long-lived assets.

Measurement of Stock-Based Compensation

We account for stock-based compensation under the provisions of the amended authoritative guidance and related interpretations, which require the measurement and recognition of expense related to the fair value of stock-based compensation awards. The fair value of stock-based compensation awards is measured at the grant date and re-measured upon modification, as appropriate. Determining the appropriate fair value model and calculating the fair value of stock-based awards at the date of grant require judgment.

We use the Black-Scholes option pricing model to estimate the fair value of employee stock options and rights to purchase shares under the Company's 2009 Stock Plan and 2009 Employee Stock Purchase Plan, or ESPP, consistent with the provisions of the amended authoritative guidance. This fair value is expensed on a straight-line basis over the requisite service period of the award. Using the Black-Scholes pricing model requires us to develop highly subjective assumptions, including the expected term of awards, expected volatility of our stock, expected risk-free interest rate and expected dividend rate over the term of the award. Our expected term of awards is based primarily on our historical experience with similar grants. Our expected stock price volatility for both stock options and ESPP shares is based on the historic volatility of our stock, using the daily average of the opening and closing prices and measured using historical data appropriate for the expected term. The risk-free interest rate assumption approximates the risk-free interest rate of a Treasury Constant Maturity bond with a maturity approximately equal to the expected term of the stock option or ESPP shares.

In addition to the assumptions used in the Black-Scholes pricing model, the amended authoritative guidance requires that we recognize compensation expense only for awards ultimately expected to vest; therefore, we are required to develop an estimate of the historical pre-vest forfeiture experience and apply this to all stock-based awards. The fair value of restricted stock awards, or RSAs, and restricted stock units, or RSUs, is based on the closing price of our common stock on the date of grant. RSA and RSU awards which vest with service are expensed over the requisite service period. RSAs and RSU awards that are expected to vest based on the achievement of a performance goal are expensed over the estimated vesting period. We

regularly review the assumptions used to compute the fair value of our stock-based awards and we revise our assumptions as appropriate. In the event that assumptions used to compute the fair value of our stock-based awards are later determined to be inaccurate or if we change our assumptions significantly in future periods, stock-based compensation expense and our results of operations could be materially impacted. See Note 10 to the Consolidated Financial Statements.

Accounting for Income Taxes

As part of the process of preparing our financial statements, we are required to estimate our income taxes in each of the jurisdictions in which we operate. This process involves estimating our actual current tax exposure together with assessing temporary differences resulting from different tax and accounting treatment of items, such as deferred revenue, allowance for doubtful accounts, the impact of equity awards, depreciation and amortization, and employee-related accruals. These differences result in deferred tax assets and liabilities, which are included on our balance sheets. We must then assess the likelihood that our deferred tax assets will be recovered from future taxable income. To the extent we believe that recovery is not likely, we must establish a valuation allowance. To the extent we establish a valuation allowance or increase this allowance in a period, we must include an expense within the tax provision in the statements of operations.

Significant management judgment is required in determining our provision for income taxes, deferred tax assets, liabilities and any valuation allowance recorded against our net deferred tax assets. Our deferred tax assets, consisting primarily of net operating loss carryforwards, depreciation and amortization, amounted to \$56.0 million, tax effected, as of the end of 2017. In evaluating our ability to recover our deferred tax assets within the jurisdiction from which they arise, we consider all available positive and negative evidence, including scheduled reversals of deferred tax liabilities, uncertainty of projecting future taxable income and results of recent operations. As of December 31, 2017, we had federal and state income tax net operating loss (NOL) carryforwards of approximately \$161.1 million and \$53.9 million, respectively, which will expire at various dates from 2018 through 2037. We had research credit carryforwards of approximately \$4.2 million for federal and \$4.2 million for state income tax purposes as of December 31, 2017. If not utilized, the federal carryforwards will expire at various dates from 2018. The California credit can be carried forward indefinitely. We believe that it is more likely than not that the deferred tax assets and benefits from these federal and state NOL and credit carryforwards will not be realized. In recognition of this risk, we have recorded a valuation allowance of \$55.9 million, tax-effected, as of the end of 2017, due to uncertainties related to our ability to utilize our U.S. deferred tax assets before they expire.

Results of Operations

The following table sets forth the percentage of revenue for certain items in our statements of operations for the periods indicated:

| | Fiscal Years | | |
|--|--------------|--------|-------|
| | 2017 | 2016 | 2015 |
| Statements of Operations: | | | |
| Revenue | 100 % | 100 % | 100 % |
| Cost of revenue | 55 % | 67 % | 60 % |
| Gross profit | 45 % | 33 % | 40 % |
| Operating expenses: | | | |
| Research and development | 79 % | 107 % | 75 % |
| Selling, general and administrative | 81 % | 90 % | 56 % |
| Restructuring costs | — % | — % | 2 % |
| Loss from operations | (115)% | (164)% | (93)% |
| Interest expense | (1)% | (2)% | — % |
| Interest income and other expense, net | — % | (1)% | (1)% |
| Loss before income taxes | (116)% | (167)% | (94)% |
| Provision for income taxes | 1 % | 1 % | 1 % |
| Net loss | (117)% | (168)% | (95)% |

Comparison of Fiscal Years 2017 and 2016

Revenue. The table below sets forth the changes in revenue for fiscal year ended December 31, 2017, as compared to fiscal year ended January 1, 2017 (in thousands, except percentage data):

| | Fiscal Years | | | | Year-Over-Year Change | |
|--|--------------|---------------------|-----------|---------------------|-----------------------|----|
| | 2017 | | 2016 | | | |
| | Amount | % of Total Revenues | Amount | % of Total Revenues | | |
| Revenue by product family ⁽¹⁾ : | | | | | | |
| New products | \$ 5,853 | 48% | \$ 5,622 | 49% | \$ 231 | 4% |
| Mature products | 6,296 | 52% | 5,799 | 51% | 497 | 9% |
| Total revenue | \$ 12,149 | 100% | \$ 11,421 | 100% | \$ 728 | 6% |

⁽¹⁾ For all periods presented: New products include all products manufactured on 180 nanometer or smaller semiconductor processes. eFPGA IP license revenue is also included in new product revenue. Mature products include all products produced on semiconductor processes larger than 180 nanometers.

The 4% increase in new product revenue in 2017 was primarily due to eFPGA license revenue and revenue from sensor processing solutions and Connectivity products, offset by a decrease from Display Bridge Solutions. In 2017, shipments of ArcticLink III were \$3.8 million compared to \$4.4 million in 2016. Revenue from connectivity products was \$1.4 million in 2017 compared to \$1.0 million in 2016. Revenue generated from Samsung accounted for 40% of our new product revenue and 19% of our total revenue in 2017. The increase in mature product revenue is due primarily to increased orders from our customers in the defense, aerospace, test and instrumentation sectors. We anticipate that our revenue from tablets and mature products will be likely to decline over time.

Gross Profit. The table below sets forth the changes in gross profit for fiscal year 2017 as compared to fiscal year 2016 (in thousands, except percentage data):

| | Fiscal Years | | | | Year-Over-Year Change | |
|-----------------|--------------|---------------------|-----------|---------------------|-----------------------|-------|
| | 2017 | | 2016 | | | |
| | Amount | % of Total Revenues | Amount | % of Total Revenues | | |
| Revenue | \$ 12,149 | 100% | \$ 11,421 | 100% | \$ 728 | 6 % |
| Cost of revenue | 6,627 | 55% | 7,648 | 67% | (1,021) | (13)% |
| Gross Profit | \$ 5,522 | 45% | \$ 3,773 | 33% | \$ 1,749 | 46 % |

The increase in gross profit and gross profit percentage was primarily due to the increase of (i) high margin mature product revenue by \$497,000 and (ii) new eFPGA license revenue of \$475,000. The sale of inventories that were previously written-off was \$112,000 and \$106,000 in 2017 and 2016, respectively. Inventory written-down in 2017 was \$232,000 compared to \$296,000 in 2016.

Our semiconductor products have historically had a long product life cycle and obsolescence has not been a significant factor in the valuation of inventories. However, as we pursue opportunities in the mobile market and continue to develop new CSSPs and products, we believe our product life cycle will be shorter, which will increase the potential for obsolescence. In general, our standard manufacturing lead times are longer than the binding forecasts we receive from customers.

In accordance with Accounting Standard Update, or ASU, No. 2015-11, Inventory, which came into effect in the first quarter of 2017, we review the cost of inventories and purchase commitments against estimated net realizable value (previously market value) and record a lower of cost or net realizable value (previously market value) for inventories that have a cost in excess of net realizable value (previously market value). This could have a material impact on our gross margin and inventory balances based on additional write-downs to net realizable value or a benefit from inventories previously written down. The adoption of this new accounting standard has no impact on our gross margins or consolidated financial statements.

[Table of Contents](#)

Operating Expenses. The table below sets forth the changes in operating expenses for fiscal year 2017 as compared to fiscal year 2016 (in thousands, except percentage data):

| | Fiscal Years | | | | Year-Over-Year Change | |
|--------------------------|--------------|------------------------|-----------|------------------------|--------------------------|-------|
| | 2017 | | 2016 | | | |
| | Amount | % of Total Revenues | Amount | % of Total Revenues | | |
| | | | | | | |
| R&D expenses | \$ 9,572 | 79% | \$ 12,265 | 107% | \$ (2,693) | (22)% |
| SG&A expenses | 9,900 | 81% | 10,310 | 90% | (410) | (4)% |
| Total operating expenses | \$ 19,472 | 160% | \$ 22,575 | 197% | \$ (3,103) | (14)% |

Research and Development Expenses. Our research and development, or R&D, expenses consist primarily of personnel, overhead and other costs associated with engineering process improvements, programmable logic design, CSSP design and software development. Research and development expenses were \$9.6 million and \$12.3 million in 2017 and 2016, respectively, which represented 79% and 107% of revenue for those periods. The \$2.7 million decrease in R&D expenses in 2017 as compared to 2016 is attributable to operational realignment measures implemented in the second half of 2016, which resulted in a decrease of compensation related cost by \$1.8 million, and engineering prototype equipment cost by \$630,000.

Selling, General and Administrative Expenses. Our selling, general and administrative, or SG&A, expenses consist primarily of personnel and related overhead costs for sales, marketing, finance, administration, human resources and legal functions. SG&A expenses were \$9.9 million and \$10.3 million in 2017 and 2016, respectively, which represented 81% and 90% of revenue for those periods. The \$410,000 decrease in SG&A expenses in 2017 as compared to 2016 is attributable primarily to the decrease in compensation related cost of \$751,000, attributable to cost reduction measures implemented in 2016, which was partially offset by higher consulting costs.

Interest Expense and Interest Income and Other Expense, net

The table below sets forth the changes in interest expense and interest income and other expense, net, for 2017 as compared to 2016 (in thousands, except percentage data):

| | Fiscal Years | | Year-Over-Year Change | |
|--|--------------|----------|-----------------------|------------|
| | 2017 | 2016 | Amount | Percentage |
| Interest expense | \$ (115) | \$ (175) | \$ (60) | (34)% |
| Interest income and other expense, net | 21 | (106) | (127) | (120)% |
| | \$ (94) | \$ (281) | \$ (187) | (67)% |

The decrease in interest expense by \$60,000 in 2017 compared to 2016 was due to lower line of credit balances during the year. The change in interest income and other expense, net was due primarily to higher interest income from short-term investments and also due to foreign exchange fluctuations.

We conduct a portion of our research and development activities in India and we have sales and marketing activities in various countries outside of the United States. Most of these international expenses are incurred in local currency. Foreign currency transaction gains and losses are included in interest and other income (expense), net, as they occur. We do not use derivative financial instruments to hedge our exposure to fluctuations in foreign currency and, therefore, our results of operations are and will continue to be susceptible to fluctuations in foreign exchange gains or losses.

Provision for Income Taxes. The table below sets forth the changes in provision for income taxes in 2017 as compared to 2016 (in thousands, except percentage data) :

| | Fiscal Years | | Year-Over-Year Change | |
|----------------------|--------------|-------|-----------------------|------------|
| | 2017 | 2016 | Amount | Percentage |
| Income tax provision | \$ 87 | \$ 65 | \$ 22 | 34% |

The income tax expense for 2017 and 2016 was primarily from our foreign operations which are cost-plus entities.

As of the end of 2017, our ability to utilize our U.S. deferred tax assets in future periods is uncertain and, accordingly, we have recorded a full valuation allowance against the related U.S. deferred tax assets. We will continue to assess the realizability of deferred tax assets in future periods.

Comparison of Fiscal Years 2016 and 2015

Revenue. The table below sets forth the changes in revenue for fiscal year 2016 as compared to fiscal year 2015 (in thousands, except percentage data):

| | Fiscal Years | | | | Year-Over-Year Change | |
|--|--------------|------------------------|-----------|------------------------|--------------------------|-------|
| | 2016 | | 2015 | | | |
| | Amount | % of Total Revenues | Amount | % of Total Revenues | | |
| Revenue by product family ⁽¹⁾ : | | | | | | |
| New products | \$ 5,622 | 49% | \$ 12,020 | 63% | \$ (6,398) | (53)% |
| Mature products | 5,799 | 51% | 6,936 | 37% | (1,137) | (16)% |
| Total revenue | \$ 11,421 | 100% | \$ 18,956 | 100% | \$ (7,535) | (40)% |

⁽¹⁾ For all periods presented: New products include all products manufactured on 180 nanometer or smaller semiconductor processes. Mature products include all products produced on semiconductor processes larger than 180 nanometers.

The decrease in new product revenue in 2016 was primarily due to lower shipments to Samsung, which had designed our ArcticLink III VX product into its tablet platform, and also due to lower shipments of connectivity products. In 2016, shipments of ArcticLink III were \$4.4 million compared to \$8.3 million in 2015. Revenue from connectivity products was \$1.0 million in 2016 compared to \$3.5 million in 2015. Revenue generated from Samsung accounted for 68% of our new product revenue and 33% of our total revenue in 2016. The decrease in mature product revenue was due primarily to decreased orders from our customers in the aerospace, test and instrumentation sectors.

Gross Profit. The table below sets forth the changes in gross profit for fiscal year 2016 as compared to fiscal year 2015 (in thousands, except percentage data):

| | Fiscal Years | | | | Year-Over-Year Change | |
|-----------------|--------------|---------------------|-----------|---------------------|-----------------------|-------|
| | 2016 | | 2015 | | | |
| | Amount | % of Total Revenues | Amount | % of Total Revenues | | |
| Revenue | \$ 11,421 | 100% | \$ 18,956 | 100% | \$ (7,535) | (40)% |
| Cost of revenue | 7,648 | 67% | 11,411 | 60% | (3,763) | (33)% |
| Gross Profit | \$ 3,773 | 33% | \$ 7,545 | 40% | \$ (3,772) | (50)% |

The decrease in gross profit was primarily due to a reduction in sales of both new and matured products, which was due to fluctuations in end-customers' revenue forecasts. The gross margin decrease of 7% in 2016 compared to 2015 was due to the decrease of (i) high margin mature product revenue by \$1.1 million and (ii) a \$6.4 million reduction in lower margin new product revenue. The effect of price reductions in 2016 on gross profit was approximately \$120,000 or 1%. The sale of inventories that were previously written-off was \$106,000 and \$201,000 in 2016 and 2015, respectively. Inventory written-down in 2016 was \$296,000 compared to \$229,000 in 2015. There were no adjustments to the LCM reserve in fiscal year 2016.

Operating Expenses. The table below sets forth the changes in operating expenses for fiscal year 2016 as compared to fiscal year 2015 (in thousands, except percentage data):

| | Fiscal Years | | | | Year-Over-Year Change | |
|--------------------------|--------------|---------------------|-----------|---------------------|-----------------------|-------|
| | 2016 | | 2015 | | | |
| | Amount | % of Total Revenues | Amount | % of Total Revenues | | |
| R&D expenses | \$ 12,265 | 107% | \$ 14,144 | 75% | \$ (1,879) | (13)% |
| SG&A expenses | 10,310 | 90% | 10,619 | 56% | (309) | (3)% |
| Restructuring Costs | — | —% | 295 | 2% | (295) | 100 % |
| Total operating expenses | \$ 22,575 | 197% | \$ 25,058 | 133% | \$ (2,483) | (10)% |

Research and Development Expenses. Our research and development, or R&D expenses consist primarily of personnel, overhead and other costs associated with engineering process improvements, programmable logic design, CSSP design and software development. Research and development expense were \$12.3 million and \$14.1 million in 2016 and 2015, respectively, which represented 107% and 75% of revenue for those periods. The \$1.9 million decrease in R&D expenses in 2016 as compared to 2015 is attributable to cost cutting measures implemented in 2016, which resulted in a decrease of outside services cost by \$892,000 and salaries cost by \$723,000.

Selling, General and Administrative Expenses. Our selling, general and administrative, or SG&A expenses consist primarily of personnel and related overhead costs for sales, marketing, finance, administration, human resources and legal functions. SG&A expenses were \$10.3 million and \$10.6 million in 2016 and 2015, respectively, which represented 90% and 56% of revenue for those periods. The \$309,000 decrease in SG&A expenses in 2016 as compared to 2015 was attributable primarily to the decrease in salaries cost of \$638,000, attributable to cost reduction measures implemented in 2016, which was partially offset by higher outside services costs of \$342,000.

Interest Expense and Interest Income and Other Expense, net

The table below sets forth the changes in interest expense and interest income and other expense, net for 2016 as compared to 2015 (in thousands, except percentage data):

| | Fiscal Years | | Year-Over-Year Change | |
|--|-----------------|-----------------|-----------------------|--------------|
| | 2016 | 2015 | Amount | Percentage |
| Interest expense | \$ (175) | \$ (82) | \$ 93 | 113 % |
| Interest income and other expense, net | (106) | (107) | (1) | (1)% |
| | <u>\$ (281)</u> | <u>\$ (189)</u> | <u>\$ 92</u> | <u>(49)%</u> |

The change in interest expense increased by \$93,000 in 2016 compared to 2015 due to additional draw down of \$4.0 million from our line of credit in 2016. The change in interest income and other expense, net was due primarily to a decrease in foreign exchange losses in 2016 as compared to 2015.

Provision for Income Taxes. The table below sets forth the changes in provision for (benefit from) income taxes for 2016 as compared to 2015 (in thousands, except percentage data):

| | Fiscal Years | | Year-Over-Year Change | |
|----------------------|--------------|--------|-----------------------|------------|
| | 2016 | 2015 | Amount | Percentage |
| Income tax provision | \$ 65 | \$ 146 | \$ (81) | (55)% |

The income tax expense for 2016 and 2015 was primarily for our foreign operations, which are cost-plus entities.

As of the end of 2016, our ability to utilize our U.S. deferred tax assets in future periods was uncertain and, accordingly, we recorded a full valuation allowance against the related U.S. tax asset.

Liquidity and Capital Resources

We have financed our operations and capital investments through sales of common stock, capital and operating leases, a bank line of credit and cash flow from operations. As of December 31, 2017, our principal sources of liquidity consisted of our cash and cash equivalents of \$16.5 million and an additional \$6.0 million line of credit available at our election. As of December 31, 2017, we had drawn down \$6.0 million from our revolving line of credit with Silicon Valley Bank. Under the Third Amendment to the Third and Restated Loan and Security Agreement dated as of February 10, 2016, the revolving line of credit is subject to increases at our election up to \$12.0 million, subject to certain requirements included in our debt agreement with Silicon Valley Bank.

On August 31, 2017, we entered into a Fourth Amendment to the Third Amended and Restated Loan and Security Agreement with Silicon Valley Bank to extend the line of credit for one year through September 24, 2018 and to modify certain financial covenants. This amendment requires us to maintain (i) unrestricted cash or cash equivalents at the Silicon Valley Bank or at any of its affiliates at all times in an amount of at least \$6,000,000; and (ii) a ratio of quick of at least 1.40 to 1.00, tested as of the last day of each month, with the numerator equal to quick assets and (a) the denominator equal to the sum of (1) current liabilities minus (2) the current portion of deferred revenue plus (3) the long term obligations. We are in compliance with all loan covenants as of the end of the current reporting period. Upon each advance, we can elect a Prime Rate advance, which is the prime rate plus the prime rate margin, or a LIBOR advance, which is LIBOR rate plus the LIBOR rate margin. As of the fiscal year ended December 31, 2017, we had \$6.0 million of revolving debt outstanding. Further, any violations of debt covenants during 2017 will restrict our access to any additional cash draws from the revolving line of credit, and may require our immediate repayment of the outstanding debt amounts. Additionally, we have an accumulated deficit of approximately \$254 million, experienced net losses in past years, and expect such losses to continue through at least the year ending December 30, 2018 as we continue to develop new products, applications and technologies.

On March 28, 2017, the Company issued 11.3 million shares of common stock at a price of \$1.50 per share, \$0.001 par value. We received net proceeds of approximately \$15.2 million, after deducting underwriting commissions and other offering-related expenses. We used the net proceeds for working capital, to accelerate the development of next generation products and for general corporate purposes. We may also use a portion of the net proceeds to acquire and/or license technologies and acquire and/or invest in businesses when the opportunity arises; however, we currently have no commitments or agreements and are not involved in any negotiations with respect to any such transactions. The shares were offered pursuant to a shelf registration statement filed with the SEC on December 9, 2016, as amended on March 15, 2017, which was declared effective by the SEC on March 16, 2017, and as supplemented by a prospectus supplement dated March 23, 2017, which was filed with the SEC pursuant to Rule 424(b) under the Securities Act of 1933, as amended.

Over the longer term, we anticipate that the generation of sales from our new product offerings, existing cash and cash equivalents, together with financial resources from our revolving line of credit with Silicon Valley Bank and our ability to raise additional capital in the public capital markets will be sufficient to satisfy our operations and capital expenditures. Our revolving line of credit will expire in September 2018 and we would need to renew this line of credit or find an alternative lender prior to the expiration date. Further, any violations of debt covenants during 2018 will restrict our access to any additional cash draws from the revolving line of credit, and may require our immediate repayment of the outstanding debt amounts. We believe that we will be able to either renew the revolving line of credit or obtain alternative financing on the acceptable terms. We cannot provide any assurance that we will be able to raise additional capital, if required, or that such capital will be available on terms acceptable to us. Our inability to generate sufficient sales from our new product offerings and/or raise additional capital if needed could have a material adverse effect on our operations and financial condition, including our ability to maintain compliance with our lender's financial covenants.

We were in compliance with all loan covenants as of the end of the current reporting period. As of December 31, 2017, we had \$6.0 million of outstanding revolving line of credit with an interest rate of 4.31%

As of December 31, 2017, there was no material difference between the fair value and the carrying amount of capital software leasing arrangements.

As of December 31, 2017, most of our cash and cash equivalents were invested in JP Morgan U.S. government money market funds rated AAAm/Aaa. As of December 31, 2017, our interest-bearing debt consisted of \$654,000 outstanding under capital leases and \$6.0 million outstanding under our revolving line of credit. See Note 5 to the Consolidated Financial Statements for details.

Cash balances held at our foreign subsidiaries were approximately \$950,000 and \$544,000 at December 31, 2017 and January 1, 2017, respectively. Earnings from our foreign subsidiaries are currently deemed to be indefinitely reinvested. We do

[Table of Contents](#)

not expect such reinvestment to affect our liquidity and capital resources, and we continually evaluate our liquidity needs and ability to meet global cash requirements as a part of our overall capital deployment strategy. Factors which affect our liquidity, capital resources and global capital deployment strategy include anticipated cash flows, the ability to repatriate cash in a tax efficient manner, funding requirements for operations and investment activities, acquisitions and divestitures and capital market conditions.

In summary, our cash flows were as follows (in thousands):

| | Fiscal Year | | |
|---|-------------|-------------|-------------|
| | 2017 | 2016 | 2015 |
| Net cash (used in) operating activities | \$ (12,938) | \$ (15,259) | \$ (11,829) |
| Net cash (used in) investing activities | (642) | (1,954) | (346) |
| Net cash provided by financing activities | 15,237 | 12,947 | 1,261 |

Net Cash from Operating Activities

In 2017, net cash used in operating activities was \$12.9 million, and resulted primarily from a net loss of \$14.1 million, which was offset by \$3.1 million in non-cash charges. These non-cash charges included write-downs of inventories in the amount of \$232,000 to reflect excess quantities, depreciation and amortization of our long-lived assets of \$1.4 million and stock-based compensation of \$1.4 million. In addition, changes in working capital accounts used cash of \$1.9 million as a result of an increase in accounts receivable of \$86,000, an increase in gross inventory of \$1.8 million, and a decrease of accounts payable of \$145,000, partially offset by an increase in accrued liabilities of \$72,000.

In 2016, net cash used in operating activities was \$15.3 million, and resulted primarily from a net loss of \$19.1 million, which was offset by \$3.6 million in non-cash charges. These non-cash charges included write-downs of inventories in the amount of \$296,000 to reflect excess quantities, depreciation and amortization of our long-lived assets of \$1.3 million and stock-based compensation of \$1.6 million. In addition, changes in working capital accounts provided cash of \$88,000 as a result of a decrease in accounts receivable of \$762,000, decrease of gross inventory \$565,000, and an increase of accrued liabilities of \$124,000, partially offset by a decrease of accounts payable of \$1.3 million and decrease of deferred revenue of \$26,000.

In 2015, net cash used in operating activities was \$11.8 million, and resulted primarily from a net loss of \$17.8 million, which was offset by \$3.7 million in non-cash charges. These non-cash charges included write-downs of inventories in the amount of \$229,000 to reflect excess quantities, depreciation and amortization of our long-lived assets of \$1.4 million and stock-based compensation of \$1.9 million. In addition, changes in working capital accounts provided cash of \$2.0 million as a result of an increase in accounts payable of \$260,000, decrease in gross inventory of \$1.8 million, and decrease of other assets of \$300,000, partially offset by a decrease of accrued liabilities of \$94,000 and an increase in accounts receivable of \$49,000. The inventory decrease was primarily due to sale of existing ArcticLink III and PolarPro products inventory purchased in prior years.

Net Cash from Investing Activities

Net cash used for investing activities in 2017 was \$642,000, primarily for capital expenditures to acquire manufacturing equipment and software.

Net cash used for investing activities in 2016 was \$2 million, primarily for capital expenditures to acquire mask sets for our new products and other manufacturing equipment and software.

In 2015, net cash used for investing activities was \$346,000, primarily for capital expenditures to acquire manufacturing equipment and software.

Net Cash from Financing Activities

In 2017, net cash provided by financing activities was \$15.2 million, resulting from the proceeds of \$15.2 million from our stock offering in March 2017 and proceeds of \$352,000 from the issuance of common shares to employees under our equity plans, net of taxes paid related to net settlement of equity awards of \$198,000. These proceeds were partially offset by payments of \$344,000 under the terms of our capital software lease obligations.

In 2016, net cash provided by financing activities was \$12.9 million, resulting from the additional borrowing of \$4.0 million under the line of credit, proceeds of \$8.8 million from our stock offering in March 2016 and proceeds of \$424,000 from the issuance of common shares to employees under our equity plans, net of taxes paid related to net settlement of equity awards of \$179,000. These proceeds were partially offset by payments of \$280,000 under the terms of our capital software lease obligations.

In 2015, net cash provided by financing activities was \$1.3 million, resulting from the additional borrowing of \$1.0 million under the line of credit and proceeds of \$554,000 from the issuance of common shares to employees under our equity plans. These proceeds were partially offset by payments of \$293,000 under the terms of our capital software lease obligations.

We require substantial cash to fund our business. However, we believe that our existing cash and cash equivalents, together with available financial resources from the revolving line of credit facility will be sufficient to satisfy our operations and capital expenditures over the next twelve months. Our revolving line of credit will expire in September 2018 and we would need to renew this line of credit or find an alternative lender prior to the expiration date. Further, any violations of debt covenants during 2018 will restrict our access to any additional cash draws from the revolving line of credit, and may require our immediate repayment of the outstanding debt amounts. After the next twelve months, our cash requirements will depend on many factors, including our level of revenue and gross profit, the market acceptance of our existing and new products, the levels at which we maintain inventories and accounts receivable, costs of securing access to adequate manufacturing capacity, new product development efforts, capital expenditures and the level of our operating expenses. In order to satisfy our longer term liquidity requirements, we may be required to raise additional equity or debt financing. There can be no assurance that financing will be available at commercially acceptable terms or at all.

Contractual Obligations and Commercial Commitments

The following table summarizes our non-cancelable contractual obligations and commercial commitments as of the end of 2017 and the effect such obligations and commitments are expected to have on our liquidity and cash flows in future fiscal periods (in thousands):

| | Payments Due by Period | | | |
|---|------------------------|------------------|------------|-------------------|
| | Total | Less than 1 year | 1-3 Years | More than 3 Years |
| <i>Contractual cash obligations:</i> | | | | |
| Operating leases | \$ 1,270 | \$ 835 | \$ 347 | \$ 88 |
| Wafer purchases ⁽¹⁾ | 1,094 | 1,094 | — | — |
| Other purchase commitments | 1,727 | 1,618 | 109 | — |
| <i>Total contractual cash obligations</i> | <i>4,091</i> | <i>3,547</i> | <i>456</i> | <i>88</i> |
| <i>Other commercial commitments⁽²⁾:</i> | | | | |
| Revolving line of credit | 6,000 | 6,000 | — | — |
| Capital software lease obligations | 654 | 299 | 355 | — |
| <i>Total commercial commitments</i> | <i>6,654</i> | <i>6,299</i> | <i>355</i> | <i>—</i> |
| Total contractual obligations and commercial commitments ⁽³⁾ | \$ 10,745 | \$ 9,846 | \$ 811 | \$ 88 |

(1) Certain of our wafer manufacturers require us to forecast wafer starts several months in advance. We are committed to take delivery of and pay for a portion of forecasted wafer volume. Wafer purchase commitments of \$1.1 million include firm purchase commitments and a portion of our forecasted wafer starts as of the end of 2017.

(2) Other commercial commitments are included as liabilities on our consolidated balance sheets as of the end of 2017.

(3) Does not include unrecognized tax benefits of \$2.1 million as of the end of 2017. See Note 7 of the Consolidated Financial Statements.

Concentration of Suppliers

We depend on a limited number of contract manufacturers, subcontractors, and suppliers for wafer fabrication, assembly, programming and testing of our devices, and for the supply of programming equipment. These services are typically provided by one supplier for each of our devices. We generally purchase these single or limited source services through standard purchase orders. Because we rely on independent subcontractors to perform these services, we cannot directly control product delivery schedules, costs or quality levels. Our future success also depends on the financial viability of our independent subcontractors. These subcontract manufacturers produce products for other companies and we must place orders in advance of expected delivery. As a result, we have only a limited ability to react to fluctuations in demand for our products, which could cause us to have an excess or a shortage of inventories of a particular product, and our ability to respond to changes in demand is limited by these suppliers' ability to provide products with the quantity, quality, cost and timeliness that we require. The decision not to provide these services to us or the inability to supply these services to us, such as in the case of a natural or financial disaster, would have a significant impact on our business. Increased demand from other companies could result in these subcontract manufacturers allocating available capacity to customers that are larger or have long-term supply contracts in place and we may be unable to obtain adequate foundry and other capacity at acceptable prices, or we may experience delays or interruption in supply. Additionally, volatility of economic, market, social and political conditions in countries where these suppliers operate may be unpredictable and could result in a reduction in product revenue or increase our cost of revenue and could adversely affect our business, financial condition and results of operations.

Off-Balance Sheet Arrangements

We do not maintain any off-balance sheet partnerships, arrangements or other relationships with unconsolidated entities or others, often referred to as structured finance or special purpose entities, which are established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

Recently Issued Accounting Pronouncements

See Note 2 to the Consolidated Financial Statements for a full description of recent accounting pronouncements, including the expected dates of adoption and estimated effects on financial condition and results of operations, which is incorporated herein by reference.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Interest Rate Risk

Our exposure to market rate risk for changes in interest rates relates primarily to our investment portfolio and variable rate debt. We do not use derivative financial instruments to manage our interest rate risk. We are adverse to principal loss and ensure the safety and preservation of invested funds by limiting default, market risk and reinvestment risk. Our investment portfolio is generally comprised of investments that meet high credit quality standards and have active secondary and resale markets. Since these securities are subject to interest rate risk, they could decline in value if interest rates fluctuate or if the liquidity of the investment portfolio were to change. Due to the short duration and conservative nature of our investment portfolio, we do not anticipate any material loss with respect to our investment portfolio. A 10% change in interest rates during 2017 would have had an immaterial effect on our financial position, results of operations and cash flows.

Foreign Currency Exchange Rate Risk

All of our sales and cost of manufacturing are transacted in U.S. dollars. We conduct a portion of our research and development activities in India and have sales and marketing offices in several locations outside of the United States. We use the U.S. dollar as our functional currency. Most of the costs incurred at these international locations are in local currency. If these local currencies strengthen against the U.S. dollar, our payroll and other local expenses will be higher than we currently anticipate. Since our sales are transacted in U.S. dollars, this negative impact on expenses would not be offset by any positive effect on revenue. Operating expenses denominated in foreign currencies were approximately 25%, 18% and 17% of total operating expenses in 2017, 2016 and 2015, respectively. A majority of these foreign expenses were incurred in India, the United Kingdom and Korea in 2016. A currency exchange rate fluctuation of 10% would have caused our operating expenses to change by approximately \$486,000 in 2017, \$398,000 in 2016 and \$419,000 in 2015.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

| | Page |
|--|--------------------|
| Report of Independent Registered Public Accounting Firm-Moss Adams LLP | 43 |
| Report of Independent Registered Public Accounting Firm-BDO USA, LLP | 45 |
| Consolidated Balance Sheets as of December 31, 2017 and January 1, 2017 | 46 |
| Consolidated Statements of Operations for the Fiscal Years 2017, 2016 and 2015 | 47 |
| Consolidated Statements of Cash Flows for the Fiscal Years 2017, 2016 and 2015 | 48 |
| Consolidated Statements of Stockholders' Equity for the Fiscal Years 2017, 2016 and 2015 | 49 |
| Notes to Consolidated Financial Statements | 50 |

Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of
QuickLogic Corporation

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of QuickLogic Corporation (the “Company”) as of December 31, 2017 and January 1, 2017, the related consolidated statements of operations, comprehensive loss, stockholders’ equity and cash flows for the years then ended, and the related notes (collectively referred to as the “consolidated financial statements”). We also have audited the Company’s internal control over financial reporting as of December 31, 2017, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of the Company as of December 31, 2017 and January 1, 2017 and the consolidated results of its operations and its cash flows for the years then ended, in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2017, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by COSO.

Basis for Opinions

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

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

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

Definition and Limitations of Internal Control Over Financial Reporting

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

[Table of Contents](#)

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

/s/ Moss Adams LLP

San Francisco, California
March 9, 2018

We have served as the Company's auditor since 2016.

Report of Independent Registered Public Accounting Firm

Board of Directors and Stockholders
QuickLogic Corporation
Sunnyvale, California

We have audited the accompanying consolidated statements of operations and comprehensive loss, stockholders' equity, and cash flows of QuickLogic Corporation for the year ended January 3, 2016. In connection with our audit of the financial statements, we have also audited the financial statement schedule, Valuation and Qualifying Accounts, as of and for the year ended January 3, 2016 listed in Item 15(a)2. These financial statements and schedule are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements and schedule based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements and schedules. We believe that our audit provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the results of operations of QuickLogic Corporation and its cash flows for the year ended January 3, 2016, in conformity with accounting principles generally accepted in the United States of America.

Also, in our opinion, the financial statement schedule, Valuation and Qualifying Accounts, as of and for the year ended January 3, 2016 listed in Item 15(a)2, when considered in relation to the basic consolidated financial statements taken as a whole, present fairly, in all material respects, the information set forth therein.

/s/ BDO USA, LLP

San Jose, California
March 18, 2016

QUICKLOGIC CORPORATION
CONSOLIDATED BALANCE SHEETS
(in thousands, except par value amount)

| | December 31, 2017 | January 1, 2017 |
|---|----------------------|--------------------|
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 16,527 | \$ 14,870 |
| Accounts receivable, net of allowances for doubtful accounts of \$0 | 925 | 839 |
| Inventories | 3,559 | 2,017 |
| Other current assets | 997 | 1,123 |
| Total current assets | 22,008 | 18,849 |
| Property and equipment, net | 2,375 | 2,765 |
| Other assets | 253 | 230 |
| TOTAL ASSETS | \$ 24,636 | \$ 21,844 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current liabilities: | | |
| Revolving line of credit | \$ 6,000 | \$ 6,000 |
| Trade payables | 1,437 | 2,018 |
| Accrued liabilities | 1,653 | 1,580 |
| Current portion of capital software lease obligations | 299 | 209 |
| Total current liabilities | 9,389 | 9,807 |
| Long-term liabilities: | | |
| Capital software lease obligations, less current portion | 355 | — |
| Other long-term liabilities | 14 | 49 |
| Total liabilities | 9,758 | 9,856 |
| Commitments (Note 12) | | |
| Stockholders' equity: | | |
| Preferred stock, \$0.001 par value; 10,000 shares authorized; no shares issued and outstanding | — | — |
| Common stock, \$0.001 par value; 200,000 and 100,000 shares authorized; 80,536 and 68,134 shares issued and outstanding as of December 31, 2017 and January 1, 2017, respectively | 80 | 68 |
| Additional paid-in capital | 268,833 | 251,824 |
| Accumulated deficit | (254,035) | (239,904) |
| Total stockholders' equity | 14,878 | 11,988 |
| TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY | \$ 24,636 | \$ 21,844 |

The accompanying notes form an integral part of these Consolidated Financial Statements.

QUICKLOGIC CORPORATION
CONSOLIDATED STATEMENTS OF OPERATIONS
(in thousands, except per share amounts)

| | Fiscal Years | | |
|--|--------------|-------------|-------------|
| | 2017 | 2016 | 2015 |
| Statements of Operations: | | | |
| Revenue | \$ 12,149 | \$ 11,421 | \$ 18,956 |
| Cost of revenue | 6,627 | 7,648 | 11,411 |
| Gross profit | 5,522 | 3,773 | 7,545 |
| Operating expenses: | | | |
| Research and development | 9,572 | 12,265 | 14,144 |
| Selling, general and administrative | 9,900 | 10,310 | 10,619 |
| Restructuring costs | — | — | 295 |
| Loss from operations | (13,950) | (18,802) | (17,513) |
| Interest expense | (115) | (175) | (82) |
| Interest income and other expense, net | 21 | (106) | (107) |
| Loss before income taxes | (14,044) | (19,083) | (17,702) |
| Provision for income taxes | 87 | 65 | 146 |
| Net loss | \$ (14,131) | \$ (19,148) | \$ (17,848) |
| Net loss per share: | | | |
| Basic | \$ (0.18) | \$ (0.29) | \$ (0.32) |
| Diluted | \$ (0.18) | \$ (0.29) | \$ (0.32) |
| Weighted average shares: | | | |
| Basic | 77,291 | 65,377 | 56,472 |
| Diluted | 77,291 | 65,377 | 56,472 |

Note: Net Loss equals to comprehensive loss for the fiscal years 2017, 2016 and 2015

The accompanying notes form an integral part of these Consolidated Financial Statements.

QUICKLOGIC CORPORATION
CONSOLIDATED STATEMENTS OF CASH FLOWS (in thousands)

| | Fiscal Years | | |
|---|--------------|-------------|-------------|
| | 2017 | 2016 | 2015 |
| Cash flows from operating activities: | | | |
| Net loss | \$ (14,131) | \$ (19,148) | \$ (17,848) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | | |
| Depreciation and amortization | 1,373 | 1,332 | 1,409 |
| Stock-based compensation | 1,441 | 1,584 | 2,028 |
| Write-down of inventories | 232 | 296 | 229 |
| Write-off of equipment | 12 | 368 | 8 |
| Changes in operating assets and liabilities: | | | |
| Accounts receivable | (86) | 762 | (49) |
| Inventories | (1,774) | 565 | 1,845 |
| Other assets | 103 | 305 | 300 |
| Trade payables | (145) | (1,337) | 260 |
| Accrued liabilities | 72 | 124 | (94) |
| Deferred income | — | (26) | 26 |
| Other long-term liabilities | (35) | (84) | 57 |
| Net cash used in operating activities | (12,938) | (15,259) | (11,829) |
| Cash flows from investing activities: | | | |
| Capital expenditures for property and equipment | (642) | (1,954) | (346) |
| Net cash used in investing activities | (642) | (1,954) | (346) |
| Cash flows from financing activities: | | | |
| Payment of capital software lease obligations | (344) | (280) | (293) |
| Proceeds from line of credit | 18,000 | 4,000 | 1,000 |
| Repayment of line of credit | (18,000) | — | — |
| Proceeds from issuance of common stock | 17,550 | 10,603 | 692 |
| Stock issuance costs | (1,771) | (1,197) | — |
| Taxes paid related to net settlement of equity awards | (198) | (179) | (138) |
| Net cash provided by financing activities | 15,237 | 12,947 | 1,261 |
| Net increase (decrease) in cash and cash equivalents | 1,657 | (4,266) | (10,914) |
| Cash and cash equivalents at beginning of period | 14,870 | 19,136 | 30,050 |
| Cash and cash equivalents at end of period | \$ 16,527 | \$ 14,870 | \$ 19,136 |
| Supplemental disclosures of cash flow information: | | | |
| Interest paid | \$ 106 | \$ 183 | \$ 77 |
| Income taxes paid | \$ 157 | \$ 128 | \$ 121 |
| Supplemental schedule of non-cash investing and financing activities : | | | |
| Capital software lease obligation to finance capital expenditures | \$ 654 | \$ 209 | \$ 489 |
| Purchase of equipment included in accounts payable | \$ 436 | \$ — | \$ 977 |

The accompanying notes form an integral part of these Consolidated Financial Statements.

QUICKLOGIC CORPORATION
CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY
(in thousands)

| | Common Stock at Par Value | | Additional Paid-In Capital | Accumulated Deficit | Total Stockholders' Equity |
|---|------------------------------|--------|----------------------------------|------------------------|----------------------------------|
| | Shares | Amount | | | |
| Balance at December 28, 2014 | 56,182 | \$ 56 | \$ 238,419 | \$ (202,908) | \$ 35,567 |
| Common stock issued under stock plans and employee stock purchase plans | 722 | 1 | 553 | — | 554 |
| Stock-based compensation | — | — | 2,052 | — | 2,052 |
| Net loss | — | — | — | (17,848) | (17,848) |
| Balance at January 3, 2016 | 56,904 | 57 | 241,024 | (220,756) | 20,325 |
| Common stock issued under stock plans and employee stock purchase plans | 1,230 | 1 | 423 | — | 424 |
| Common stock offering, net of issuance costs | 10,000 | 10 | 8,793 | — | 8,803 |
| Stock-based compensation | — | — | 1,584 | — | 1,584 |
| Net loss | — | — | — | (19,148) | (19,148) |
| Balance at January 1, 2017 | 68,134 | 68 | 251,824 | (239,904) | 11,988 |
| Common stock issued under stock plans and employee stock purchase plans | 1,069 | 1 | 350 | — | 351 |
| Common stock offering, net of issuance costs | 11,333 | 11 | 15,218 | — | 15,229 |
| Stock-based compensation | — | — | 1,441 | — | 1,441 |
| Net loss | — | — | — | (14,131) | (14,131) |
| Balance at December 31, 2017 | 80,536 | \$ 80 | \$ 268,833 | \$ (254,035) | \$ 14,878 |

The accompanying notes form an integral part of these Consolidated Financial Statements.

NOTE 1-THE COMPANY AND BASIS OF PRESENTATION

QuickLogic Corporation, ("QuickLogic", the "Company"), was founded in 1988 and reincorporated in Delaware in 1999. The Company enables Original Equipment Manufacturers or OEMs to maximize battery life for highly differentiated, immersive user experiences with Smartphone, Wearable, Hearable, Tablet and Internet-of-Things or IoT devices. QuickLogic delivers these benefits through industry leading ultra-low power customer programmable System on Chip or SoC semiconductor solutions, embedded software, and algorithm solutions for always-on voice and sensor processing, and enhanced visual experiences. The Company is a fabless semiconductor provider of comprehensive, flexible sensor processing solutions, ultra-low power display bridges, and ultra-low power Field Programmable Gate Arrays, or FPGAs.

QuickLogic's fiscal year ends on the Sunday closest to December 31. Fiscal years 2017, 2016 and 2015 ended on December 31, 2017, January 1, 2017 and January 3, 2016, respectively.

Liquidity

The Company has financed its operations and capital investments through sales of common stock, capital and operating leases, and bank lines of credit. As of December 31, 2017, the Company's principal sources of liquidity consisted of its cash and cash equivalents of \$16.5 million and an additional \$6.0 million credit line is available for draw at the Company's election upon credit approval under its revolving line of credit arrangement with Silicon Valley Bank. The revolving line of credit will expire in September 2018 and the Company would need to renew this line of credit or find an alternative lender prior to the expiration date. Further, any violations of debt covenants during 2018 will restrict the Company's access to any additional cash draws from the revolving line of credit, and may require immediate repayment of the outstanding debt amounts. Additionally, the Company has an accumulated deficit of approximately \$254 million, has experienced net losses in the past years and expects such losses to continue through at least the end of fiscal year 2018 as the Company continues to develop new products, applications and technologies.

On August 31, 2017, the Company entered into a Fourth Amendment to the Third Amended and Restated Loan and Security Agreement with Silicon Valley Bank to extend the line of credit for one year through September 24, 2018 and to modify certain financial covenants. This amendment requires the Company to maintain (i) unrestricted cash or cash equivalents at the Silicon Valley Bank or at any of its affiliates at all times in an amount of at least \$6,000,000; and (ii) a ratio of quick assets of at least 1.40 to 1.00, tested as of the last day of each month, with the numerator equal to quick assets and (a) the denominator equal to the sum of (1) current liabilities minus (2) the current portion of deferred revenue plus (3) the long term obligations. The Company is in compliance with all loan covenants as of the end of the current reporting period. As of December 31, 2017, we had \$6.0 million of outstanding revolving line of credit with an interest rate of 4.31%. See Note 5 for more details.

On March 28, 2017, the Company issued 11.3 million shares of common stock at a price of \$1.50 per share, \$0.001 par value. The Company received net proceeds of approximately \$15.2 million, after deducting underwriting commissions and other offering-related expenses. The Company uses the net proceeds for working capital, to accelerate the development of next generation products and for general corporate purposes. The Company may also use a portion of the net proceeds to acquire and/or license technologies and acquire and/or invest in businesses when the opportunity arises; however, the Company currently has no commitments or agreements and are not involved in any negotiations with respect to any such transactions. The shares were offered pursuant to a shelf registration statement filed on December 9, 2016 with the SEC, as amended on March 15, 2017, which was declared effective by the SEC on March 16, 2017, and as supplemented by a prospectus supplement dated March 23, 2017, which were filed with the SEC pursuant to Rule 424(b) under the Securities Act of 1933, as amended.

The Company currently uses its cash to fund its capital expenditures and operating losses. Based on past performance and current expectations, the Company believes that its existing cash and cash equivalents, together with available financial resources from the revolving line of credit with Silicon Valley Bank will be sufficient to fund its operations and capital expenditures and provide adequate working capital for the next twelve months. The Company's revolving line of credit with Silicon Valley Bank will expire in September 2018 and the Company would need to renew this line of credit or find an alternative lender prior to the expiration date. Further, any violations of debt covenants during 2018 will restrict the Company's access to any additional cash draws from the revolving line of credit, and may require immediate repayment of the outstanding debt amounts. Management believes that it is probable that the Company will be able to either renew the revolving line of credit or obtain alternative financing on the acceptable terms.

[Table of Contents](#)

Various factors affect the Company's liquidity, including, among others: the level of revenue and gross profit as a result of the cyclical nature of the semiconductor industry; the conversion of design opportunities into revenue; market acceptance of existing and new products including solutions based on its ArcticLink® and PolarPro® solution platforms; fluctuations in revenue as a result of product end-of-life; fluctuations in revenue as a result of the stage in the product life cycle of its customers' products; costs of securing access to and availability of adequate manufacturing capacity; levels of inventories; wafer purchase commitments; customer credit terms; the amount and timing of research and development expenditures; the timing of new product introductions; production volumes; product quality; sales and marketing efforts; the value and liquidity of its investment portfolio; changes in operating assets and liabilities; the ability to obtain or renew debt financing and to remain in compliance with the terms of existing credit facilities; the ability to raise funds from the sale of equity in the Company; the issuance and exercise of stock options and participation in the Company's employee stock purchase plan; and other factors related to the uncertainties of the industry and global economics.

Over the longer term, the Company anticipates that sales generated from its new product offerings, existing cash and cash equivalents, together with financial resources from its revolving line of credit with Silicon Valley Bank, assuming renewal of the line of credit or the Company entering into a new debt agreement with an alternative lender prior to the expiration of the revolving line of credit in September 2018, and its ability to raise additional capital in the public capital markets will be sufficient to satisfy its operations and capital expenditures. However, the Company cannot provide any assurance that it will be able to raise additional capital, if required, or that such capital will be available on terms acceptable to the Company. The inability of the Company to generate sufficient sales from its new product offerings and/or raise additional capital if needed could have a material adverse effect on the Company's operations and financial condition, including its ability to maintain compliance with its lender's financial covenants.

Principles of Consolidation

The consolidated financial statements have been prepared in accordance with Generally Accepted Accounting Principles, in the United States of America or US GAAP, and the applicable rules and regulations of the Securities and Exchange Commission, or SEC, and include the accounts of QuickLogic and its wholly-owned subsidiaries. All intercompany accounts and transactions have been eliminated.

Foreign Currency

The functional currency of the Company's non-U.S. operations is the U.S. dollar. Accordingly, all monetary assets and liabilities of these foreign operations are translated into U.S. dollars at current period-end exchange rates and non-monetary assets and related elements of expense are translated using historical exchange rates. Income and expense elements are translated to U.S. dollars using the average exchange rates in effect during the period. Gains and losses from the foreign currency transactions of these subsidiaries are recorded as interest income and other expense, net in the statements of operations.

Use of Estimates

The preparation of these consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosures of contingent assets and liabilities and the reported amounts of revenue and expenses during the period. Actual results could differ from those estimates, particularly in relation to revenue recognition; the allowance for doubtful accounts; sales returns; valuation of investments; valuation of long-lived assets; valuation of inventories including identification of excess quantities, market value and obsolescence; measurement of stock-based compensation awards; accounting for income taxes and estimating accrued liabilities.

Concentration of Risk

The Company's accounts receivable are denominated in U.S. dollars and are derived primarily from sales to customers located in North America, Asia Pacific, and Europe. The Company performs ongoing credit evaluations of its customers and generally does not require collateral. See Note 11 for information regarding concentrations associated with accounts receivable.

For the twelve months ended December 31, 2017, the Company generated 19% of its total revenue from shipments to a tier one customer, Samsung Electronics Co., Ltd. ("Samsung"). See Note 11 for information regarding revenue concentrations associated with our customers and distributors.

NOTE 2-SIGNIFICANT ACCOUNTING POLICIES

Cash Equivalents

The Company considers all short-term, highly liquid investments with an original or a remaining maturity at purchase of ninety days or less to be cash equivalents. The Company's investment portfolio included in cash equivalents is generally comprised of investments that meet high credit quality standards. The Company's investment portfolio consists of money market funds.

Fair Value

The guidance for the fair value option for financial assets and financial liabilities provides companies the irrevocable option to measure many financial assets and liabilities at fair value with changes in fair value recognized in earnings or equity. The Company has not elected to measure any financial assets or liabilities at fair value that were not previously required to be measured at fair value.

Foreign Currency Transactions

All of the Company's sales and cost of manufacturing are transacted in U.S. dollars. The Company conducts a portion of its research and development activities in India and has sales and marketing activities in various countries outside of the United States. Most of these international expenses are incurred in local currency. Foreign currency transaction gains and losses, which are not significant, are included in interest income and other expense, net, as they occur. Operating expenses denominated in foreign currencies were approximately 25%, 18% and 17% of total operating expenses in 2017, 2016 and 2015 respectively. The Company incurred a majority of these foreign currency expenses in India, the United Kingdom and Korea in 2017, 2016 and 2015. The Company has not used derivative financial instruments to hedge its exposure to fluctuations in foreign currency and, therefore, is susceptible to fluctuations in foreign exchange gains or losses in its results of operations in future reporting periods.

Inventories

In accordance with ASU No. 2015-11, Inventory (Topic 330): Simplifying the measurement of Inventory, which was adopted by the Company in the first quarter of 2017, inventories are stated at the lower of standard cost or net realizable value. Standard cost approximates actual cost on a first-in, first-out basis. The Company routinely evaluates quantities and values of its inventories in light of current market conditions and market trends and records reserves for quantities in excess of demand and product obsolescence. The evaluation, which inherently involves judgments as to assumptions about expected future demand and the impact of market conditions on these assumptions, takes into consideration historic usage, expected demand, anticipated sales price, the stage in the product life cycle of its customers' products, new product development schedules, the effect new products might have on the sale of existing products, product obsolescence, customer design activity, customer concentrations, product merchantability and other factors. Market conditions are subject to change. Actual consumption of inventories could differ from forecast demand, and this difference could have a material impact on the Company's gross margin and inventory balances based on additional provisions for excess or obsolete inventories or a benefit from inventories previously written down. The Company also regularly reviews the cost of inventories against estimated net realizable value (previously market value) and records a lower of cost or net realizable value (previously market value) reserve for inventories that have a cost in excess of estimated net realizable value (previously market value), which could have a material impact on the Company's gross margin and inventory balances based on additional write-downs to net realizable value or a benefit from inventories previously written down.

The Company's semiconductor products have historically had an unusually long product life cycle and obsolescence has not been a significant factor in the valuation of inventories. However, as the Company pursues opportunities in the mobile market and continues to develop new solutions and products, the Company believes its product life cycle will be shorter which could increase the potential for obsolescence. A significant decrease in demand could result in an increase in excess inventory on hand. Although the Company makes every effort to ensure the accuracy of its forecasts of future product demand, any significant unanticipated changes in demand or frequent new product developments could have a significant impact on the value of its inventory and its results of operations.

[Table of Contents](#)

Property and Equipment

Property and equipment are stated at cost less accumulated depreciation and amortization. Depreciation is calculated on a straight-line basis over the estimated useful lives of the assets, generally one to seven years. Amortization of leasehold improvements and capital leases is computed on a straight-line basis over the shorter of the lease term or the estimated useful lives of the assets, generally one to seven years.

Long-Lived Assets

The Company reviews the recoverability of its long-lived assets, such as property and equipment, annually and when events or changes in circumstances occur that indicate that the carrying value of the asset or asset group may not be recoverable. The assessment of possible impairment is based on the Company's ability to recover the carrying value of the asset or asset group from the expected future pre-tax cash flows, undiscounted and without interest charges, of the related operations. If these cash flows are less than the carrying value of the asset or asset group, an impairment loss is recognized for the difference between the estimated fair value and the carrying value, and the carrying value of the related assets is reduced by this difference. The measurement of impairment requires management to estimate future cash flows and the fair value of long-lived assets. During 2017, 2016 and 2015 the Company wrote-off equipment with a net book value of \$12,000, \$368,000 and \$8,000, respectively.

Licensed Intellectual Property

The Company licenses intellectual property that is incorporated into its products. Costs incurred under license agreements prior to the establishment of technological feasibility are included in research and development expense as incurred. Costs incurred for intellectual property once technological feasibility has been established and that can be used in multiple products are capitalized as a long-term asset. Once a product incorporating licensed intellectual property has production sales, the amount is amortized over the estimated useful life of the asset, generally up to five years.

Revenue Recognition

The Company supplies standard products which must be programmed before they can be used in an application. The Company's products may be programmed by us, distributors, end-customers or third parties.

The Company recognizes revenue as products are shipped if evidence of an arrangement exists, delivery has occurred, the sales price is fixed or determinable, collection of the resulting receivable is reasonably assured and product returns are reasonably estimable. Revenue is recognized upon shipment of programmed and unprogrammed parts to both OEM customers and distributors, provided that legal title and risk of ownership have transferred. Parts held by distributors may be returned for quality reasons only under its standard warranty policy. The Company records allowance for sales returns. Amounts recorded for sales returns were not material for the year ended December 31, 2017, and \$93,000 and \$19,000 for the years ended and January 1, 2017 and January 3, 2016, respectively.

The Company accounts for its Intellectual Property or IP license revenues and related services in accordance with Financial Accounting Standard Board or FASB Accounting Standards Codification or ASC No. 985-605, *Software Revenue Recognition*. Revenues are recognized when persuasive evidence of an arrangement exists and no further obligation exists, delivery has occurred, the license fee is fixed or determinable, and collection is reasonably assured. A license may be perpetual or time limited in its application. The Company's IP license agreement contains multiple elements including post-contract customer support. For multiple element arrangements involving software and other software-related deliverables, vendor-specific objective evidence of fair value ("VSOE") must exist to allocate the total fee among all delivered and non-essential undelivered elements of the arrangement. If undelivered elements of the arrangement are essential to the functionality of the product, revenue is deferred until the essential elements are delivered. If VSOE does not exist for one or more non-essential undelivered elements, revenue is deferred until such evidence exists for the undelivered elements, or until all elements are delivered, whichever is earlier. VSOE of each element is based on historical evidence of stand-alone sales of these elements to third parties including substantive renewal rate as stated in the agreement. When VSOE does not exist for undelivered items, the entire arrangement fee is recognized ratably over the performance period.

Warranty Costs

The Company warrants finished goods against defects in material and workmanship under normal use for twelve months from the date of shipment. The Company does not have significant product warranty related costs or liabilities.

[Table of Contents](#)

Advertising

Costs related to advertising and promotion expenditures are charged to “Selling, general and administrative” expense in the consolidated statements of operations as incurred. Costs related to advertising and promotion expenditures were \$95,000 in 2017, \$51,000 in 2016, and \$60,000 in 2015.

Stock-Based Compensation

The Company accounts for stock-based compensation under the provisions of the amended authoritative guidance, and related interpretations which require the measurement and recognition of expense related to the fair value of stock-based compensation awards. The fair value of stock-based compensation awards is measured at the grant date and re-measured upon modification, as appropriate. The Company uses the Black-Scholes option pricing model to estimate the fair value of employee stock options and rights to purchase shares under the Company's 1999 Employee Stock Purchase Plan, or ESPP, consistent with the provisions of the amended authoritative guidance. The fair value of restricted stock awards, or RSAs, and restricted stock units, or RSUs, is based on the closing price of the Company's common stock on the date of grant. Equity compensation awards which vest with service are expensed on a straight-line basis over the requisite service period. Service based Performance awards are expensed on a straight-line basis over the vesting period. If performance conditions are other than service, an accelerated method of amortization is used, which treats each vesting tranche as a separate award over the expected life of the unit. The Company regularly reviews the assumptions used to compute the fair value of its stock-based awards and it will revise its assumptions as appropriate. In the event that assumptions used to compute the fair value of its stock-based awards are later determined to be inaccurate or if the Company changes its assumptions significantly in future periods, stock-based compensation expense and the results of operations could be materially impacted. See Note 10 for further details.

Accounting for Income Taxes

The Company is required to estimate its income taxes in each of the jurisdictions in which the Company operates. This process involves estimating the Company's actual current tax exposure together with assessing temporary differences resulting from different tax and accounting treatment of items, such as deferred revenue, allowance for doubtful accounts, the impact of equity awards, depreciation and amortization and employee related accruals. These differences result in deferred tax assets and liabilities, which are included on the Company's balance sheets. The Company must then assess the likelihood that its deferred tax assets will be recovered from future taxable income and to the extent the Company believes that recovery is not likely, it must establish a valuation allowance.

Significant management judgment is required in determining the Company's provision for income taxes, the Company's deferred tax assets and liabilities and any valuation allowance recorded against the Company's net deferred tax assets. The Company's deferred tax assets, consisting primarily of net operating loss carryforwards, amounted to \$56.0 million tax effected as of the end of 2017. The Company has also recorded a valuation allowance of \$55.9 million, tax effected, as of the end of 2017 due to uncertainties related to the Company's ability to utilize its U.S. deferred tax assets before they expire. In making such determination, the Company considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, ability to project future taxable income, and results of recent operations. If the Company determines that it would be able to realize its deferred tax assets in the future in excess of its net recorded amount, the Company would make an adjustment to the deferred tax assets valuation allowance, which would reduce its provision for income taxes.

The Company accounts for uncertainty in income taxes using a two-step approach for recognizing and measuring uncertain tax positions. The first step is to evaluate the tax position for recognition by determining if the weight of available evidence indicates that it is more likely than not that the position will be sustained on audit, including resolution of related appeals or litigation processes, if any. The second step is to measure the tax benefit as the largest amount that is more than 50% likely of being realized upon settlement. The Company classifies the liability for unrecognized tax benefits as current to the extent that it anticipates payment (or receipt) of cash within one year. Interest and penalties related to uncertain tax positions are recognized in the provision for income taxes. Accrued interest and penalties are included within the related tax liability line in the Consolidated Balance Sheet.

Concentration of Credit and Suppliers

Financial instruments, which potentially subject the Company to concentrations of credit risk, consist principally of cash and cash equivalents and accounts receivable. Cash and cash equivalents are maintained with high quality institutions. The Company's accounts receivable are denominated in U.S. dollars and are derived primarily from sales to customers located in

[Table of Contents](#)

North America, Europe and Asia Pacific. The Company performs ongoing credit evaluations of its customers and generally does not require collateral. See Note 11 for information regarding concentrations associated with accounts receivable.

The Company depends on a limited number of contract manufacturers, subcontractors, and suppliers for wafer fabrication, assembly, programming and test of its devices, and for the supply of programming equipment, and these services are typically provided by one supplier for each of the Company's devices. The Company generally purchases these single or limited source services through standard purchase orders. Because the Company relies on independent subcontractors to perform these services, it cannot directly control its product delivery schedules, costs or quality levels. The Company's future success also depends on the financial viability of its independent subcontractors.

Comprehensive Income (Loss)

Comprehensive income (loss) includes all temporary changes in equity (net assets) during a period from non-owner sources. The Company's comprehensive loss equaled to net loss for all periods presented.

New Accounting Pronouncements

Recently adopted accounting pronouncements:

In July 2015, the FASB issued Accounting Standards Update, or ASU No. 2015-11, Inventory (Topic 330): Simplifying the measurement of Inventory, which amends the accounting guidance on the valuation of inventory. The guidance requires an entity to measure in scope inventory at the lower of cost and net realizable value. Net realizable value is the estimated selling prices in the ordinary course of business, less reasonably predictable costs of completion, disposal, and transportation. The amendment applies to inventory valued at first-in, first-out or average cost. This guidance is effective for reporting periods beginning after December 15, 2016, including interim periods within those fiscal years. The Company adopted this guidance in the first quarter of 2017 prospectively with no material effect on the consolidated financial statements.

Recently issued accounting pronouncements not yet adopted:

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606), which supersedes nearly all existing revenue recognition guidance under U.S. GAAP. The core principle of ASU 2014-09 is to recognize revenues when promised goods or services are transferred to customers in an amount that reflects the consideration to which an entity expects to be entitled for those goods or services. ASU 2014-09 defines a five-step process to achieve this core principle and, in doing so, more judgment and estimates may be required within the revenue recognition process than are required under existing GAAP. In applying this new guidance to contracts within its scope, an entity will: (1) identify the contract(s) with a customer, (2) identify the performance obligation in the contract, (3) determine the transaction price, (4) allocate the transaction price to the performance obligations in the contract, and (5) recognize revenue when (or as) the entity satisfies a performance obligation. Additionally, this new guidance would require significantly expanded disclosures about revenue. The new standard allows for two transition methods: (i) a full retrospective method applied to each prior reporting period presented, or (ii) a modified retrospective method applied with the cumulative effect of adoption recognized on adoption. ASU 2014-09 is effective for annual reporting periods beginning after December 15, 2017, including interim reporting periods within that reporting period. In March, April, May and December 2016, the FASB issued ASU 2016-08, ASU 2016-10, ASU 2016-12 and ASU 2016-20, respectively, which provide supplemental guidance and clarification to ASU 2014-09.

The Company was required to adopt ASU 2014-09 on January 1, 2018, the first day of the Company's 2018 fiscal year. The Company will adopt ASU 2014-09 in the first quarter of 2018 and apply the modified retrospective approach. The Company believes that the timing of recognizing revenue under its contracts with customers for sales of semiconductor products will not change significantly, but the timing of revenue recognition for its IP licensing and related services will likely be impacted, after the adoption of ASU 2014-09. This new standard will not materially affect the Company's financial statements. The new standard requires comprehensive disclosure of quantitative and qualitative information that enables users of financial statements to understand the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers. The Company expects to expand its revenue disclosure upon adoption of the new standard to meet this requirement.

In February 2016, the FASB issued ASU No. 2016-02, *Leases*. The new standard establishes a right-of-use (ROU) model that requires a lessee to record a ROU asset and a lease liability on the balance sheet for all leases with terms longer than 12 months. Leases will be classified as either finance or operating, with classification affecting the pattern of expense recognition in the income statement. The new standard is effective for fiscal years beginning after December 15, 2018,

[Table of Contents](#)

including interim periods within those fiscal years. A modified retrospective transition approach is required for lessees for capital and operating leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements, with certain practical expedients available. The Company is currently evaluating the impact of our pending adoption of the new standard on the consolidated financial statements.

In August 2016, the FASB issued ASU No. 2016-15, *Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments*. This update clarifies how certain cash receipts and cash payments are presented and classified in the statement of cash flows. This ASU is effective for public business entities for fiscal years beginning after December 15, 2017, and for interim periods therein with early adoption permitted and must be applied retrospectively to all periods presented. The Company does not currently anticipate that the adoption of this standard will have a material impact on its consolidated financial statements.

In October 2016, the FASB issued ASU No. 2016-16, *Income Taxes (Topic 740): Intra-Entity transfers of assets other than inventory*. This update removes the requirement under which the income tax consequences of intra-entity transfers are deferred until the assets are ultimately sold to an outside party, except for transfers of inventory. The tax consequences of such transfers would be recognized in tax expense when the transfers occur. The standard is effective for annual reporting periods beginning after December 15, 2017, and interim periods within those annual periods. Early adoption is permitted. The Company does not currently anticipate that the adoption of this standard will have a material impact on its consolidated financial statements.

In November 2016, the FASB issued ASU No. 2016-18, *Statement of Cash Flows (Topic 230): Restricted Cash (a consensus of the FASB Emerging Issues Task Force)*. ASU 2016-18 requires that a statement of cash flows explain the change during the period in the total of cash, cash equivalents, and amounts generally described as restricted cash or restricted cash equivalents. Therefore, amounts generally described as restricted cash and restricted cash equivalents should be included with cash and cash equivalents when reconciling the beginning-of-period and end-of-period total amounts shown on the statement of cash flows. ASU 2016-18 is effective for all interim and annual reporting periods beginning after December 15, 2017. Early adoption is permitted. The Company does not expect the adoption of ASU 2016-18 to have a material impact on the Company's Consolidated Financial Statements.

In May 2017, the FASB issued ASU No. 2017-09, *Compensation-Stock Compensation (Topic 718)*. ASU No. 2017-09 provides clarification on when modification accounting should be used for changes to the terms or conditions of a share-based payment award. This ASU does not change the accounting for modifications but clarifies that modification accounting guidance should only be applied if there is a change to the value, vesting conditions or award classification and would not be required if the changes are considered non-substantive. The amendments of this ASU are effective for reporting periods beginning after December 15, 2017, with early adoption permitted. The Company does not expect the adoption of ASU No. 2017-09 to have a material impact on the Company's Consolidated Financial Statements.

NOTE 3-NET LOSS PER SHARE

Basic net loss per share is computed by dividing net loss available to common stockholders by the weighted average number of common shares outstanding during the period. Diluted net loss per share was computed using the weighted average number of common shares outstanding during the period plus potentially dilutive common shares outstanding during the period under the treasury stock method. In computing diluted net loss per share, the weighted average stock price for the period is used in determining the number of shares assumed to be purchased from the exercise of stock options and warrants.

For 2017, 2016 and 2015, 6.7 million shares, 7.4 million shares, and 7.6 million shares, respectively, associated with equity awards outstanding and the estimated number of shares to be purchased under the current offering period of the 2009 Employee Stock Purchase Plan were not included in the calculation of diluted net loss per share, as they were considered antidilutive due to the net loss the Company experienced during those years.

NOTE 4-BALANCE SHEET COMPONENTS

| | December 31, 2017 | January 1, 2017 |
|---|----------------------|--------------------|
| | (in thousands) | |
| Inventories: | | |
| Work-in-process | \$ 2,894 | 1,538 |
| Finished goods | 665 | 479 |
| | <u>\$ 3,559</u> | <u>\$ 2,017</u> |
| Other current assets: | | |
| Prepaid expenses | \$ 836 | \$ 960 |
| Other | 161 | 163 |
| | <u>\$ 997</u> | <u>\$ 1,123</u> |
| Property and equipment: | | |
| Equipment | \$ 10,996 | \$ 11,524 |
| Software | 3,139 | 2,624 |
| Furniture and fixtures | 46 | 41 |
| Leasehold improvements | 674 | 708 |
| | 14,855 | 14,897 |
| Accumulated depreciation and amortization | (12,480) | (12,132) |
| | <u>\$ 2,375</u> | <u>\$ 2,765</u> |
| Accrued liabilities: | | |
| Employee compensation related accruals | \$ 1,143 | \$ 1,222 |
| Other | 510 | 358 |
| | <u>\$ 1,653</u> | <u>\$ 1,580</u> |

The Company recorded depreciation and amortization expense of \$1.4 million, \$1.3 million and \$1.4 million for 2017, 2016 and 2015, respectively. Assets acquired under capital leases and included in property and equipment were \$1.3 million and \$772,000 at the end of 2017 and 2016, respectively. The Company recorded accumulated depreciation on leased assets of \$607,000 and \$515,000 as of the end of 2017 and 2016, respectively. As of December 31, 2017 and January 1, 2017, the capital lease obligation relating to these assets was \$654,000 and \$209,000 respectively.

NOTE 5-OBLIGATIONS

| | December 31, 2017 | January 1, 2017 |
|--|----------------------|--------------------|
| | (in thousands) | |
| Debt and capital software lease obligations: | | |
| Revolving line of credit | \$ 6,000 | \$ 6,000 |
| Capital software leases | 654 | 209 |
| | 6,654 | 6,209 |
| Current portion of debt and capital software lease obligations | (6,299) | (6,209) |
| Long term portion of debt and capital software lease obligations | <u>\$ 355</u> | <u>\$ —</u> |

Revolving Line of Credit

On September 25, 2015, the Company entered into the Second Amendment to the Third Amended and Restated Loan and Security Agreement dated September 25, 2015 ("the Loan Agreement") with Silicon Valley Bank ("The Bank") to extend the line of credit for two years through September 25, 2017. The Second Amendment to the Loan Agreement provides for committed loan advances of up to \$6.0 million, subject to increases at the Company's election of up to \$12.0 million. Upon each advance, the Company can elect a prime rate advance, which is the prime rate plus the prime rate margin, or a LIBOR rate advance, which is LIBOR plus the LIBOR rate margin. On February 10, 2016, the Company entered into a Third Amendment to Third and Restated Loan and Security Agreement to further modify the covenants, which were replaced by the Fourth amendment as explained below.

[Table of Contents](#)

On August 31, 2017, the Company entered into a Fourth Amendment to the Third Amended and Restated Loan and Security Agreement with the Bank to extend the line of credit for one year through September 24, 2018 and replaces the financial covenants of third amendment with new financial covenants. This amendment requires the Company to maintain (i) unrestricted cash or cash equivalents at the Bank or at any of its affiliates at all times in an amount of at least \$6,000,000; and (ii) a ratio of quick assets to the results of (i) current liabilities minus (ii) the current portion of deferred revenue plus (iii) the long-term portion of the obligations of at least 1.40 to 1.00, tested as of the last day of each month. As of December 31, 2017, the Company has \$6.0 million of revolving debt outstanding with an interest rate of 4.31%.

The Bank has a first priority security interest in substantially all of the Company's tangible and intangible assets to secure any outstanding amounts under the Loan Agreement. The Loan Agreement also has certain restrictions including, among others, restrictions on the incurrence of other indebtedness, the maintenance of depository accounts, the disposition of assets, mergers, acquisitions, investments, the granting of liens, cash balances with subsidiaries and the payment of dividends. The Company complied with all the financial covenants of the Loan Agreement as of the end of the current reporting period.

Capital Leases

In December 2017, the Company leased design software under a three-year capital lease at an imputed interest rate of 6.48% per annum. Terms of the agreement require the Company to make annual payments of approximately \$52,000 through December 2019, for a total of \$156,000. As of December 31, 2017, \$146,000 was outstanding under the capital lease, \$51,000 of which was classified as a current liability.

In December 2017, the Company leased design software under a three-year capital lease at an imputed interest rate of 6.30% per annum. Terms of the agreement require the Company to make quarterly payments of approximately \$34,000 through November 2019, for a total of \$273,000. As of December 31, 2017, \$257,000 was outstanding under the capital lease, \$125,000 of which was classified as a current liability.

In May 2017, the Company leased design software under a three-year capital lease at an imputed interest rate of 5.48% per annum. Terms of the agreement require the Company to make annual payments of approximately \$92,000 through June 2019, for a total of \$276,000. As of December 31, 2017, \$170,000 was outstanding under the capital lease, \$83,000 of which was classified as a current liability.

In February 2017, the Company leased design software under a three-year capital lease at an imputed interest rate of 5.57% per annum. Terms of the agreement require the Company to make annual payments of approximately \$44,300 through February 2019, for a total of \$132,800. As of December 31, 2017, \$82,000 was outstanding under the capital lease, \$40,000 of which was classified as a current liability.

In December 2015, the Company leased design software under a two-year capital lease at an imputed interest rate of 4.88% per annum. Terms of the agreement require the Company to make quarterly payments of approximately \$22,750 through November 2017, for a total of \$182,000. This lease has expired as of December 31, 2017, with no balance outstanding.

In July 2015, the Company leased design software under a three-year capital lease at an imputed interest rate of 4.91% per annum. Terms of the agreement require the Company to make annual payments of approximately \$67,300 through July 2017, for a total of \$202,000. The lease was fully paid as of December 31, 2017.

In July 2014, the Company leased design software under a 41 month capital lease at an imputed interest rate of 3.15% per annum. Terms of the agreement require the Company to make payments of principal and interest of \$42,000 in August 2014, \$16,000 in December 2014, \$58,000 in January 2016 and \$58,000 in January 2017. The total payments for the lease were \$174,000. This lease has expired as of December 31, 2017, with no balance outstanding.

In May 2014, the Company leased design software under a three-year capital lease at an imputed interest rate of 4.8% per annum. Terms of the agreement require the Company to make annual payments of approximately \$84,000 through May 2016, for a total of \$252,000. This lease has expired as of December 31, 2017, with no balance outstanding.

NOTE 6-FAIR VALUE MEASUREMENTS

Pursuant to the accounting guidance for fair value measurements and its subsequent updates, fair value is defined as the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. When determining the fair value measurements for assets and liabilities required or permitted to be recorded at fair value, the Company considers the principal or most advantageous market and it considers assumptions that market participants would use when pricing the asset or liability.

The accounting guidance for fair value measurement also specifies a hierarchy of valuation techniques based upon whether the inputs to those valuation techniques reflect assumptions other market participants would use based upon market data obtained from independent sources (observable inputs) or reflect the company's own assumption of market participant valuation (unobservable inputs). The fair value hierarchy consists of the following three levels:

- *Level 1* – Inputs are quoted prices in active markets for identical assets or liabilities.
- *Level 2* – Inputs are quoted prices for similar assets or liabilities in an active market, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable and market-corroborated inputs which are derived principally from or corroborated by observable market data.
- *Level 3* – Inputs are derived from valuation techniques in which one or more significant inputs or value drivers are unobservable.

Money market funds classified within Level 2 because they are not actively traded, have been valued using quoted market prices or alternative pricing sources and models utilizing observable market inputs. The following table presents the Company's financial assets that are measured at fair value on a recurring basis as of December 31, 2017 and January 1, 2017 consistent with the fair value hierarchy provisions of the authoritative guidance (in thousands):

| | As of December 31, 2017 | | | | As of January 1, 2017 | | | |
|-----------------------------------|-------------------------|-----------------|-----------------|-------------|-----------------------|-----------------|------------------|-------------|
| | Total | Level 1 | Level 2 | Level 3 | Total | Level 1 | Level 2 | Level 3 |
| Assets: | | | | | | | | |
| Money market funds ⁽¹⁾ | \$ 15,635 | \$ 7,176 | \$ 8,459 | \$ — | \$ 14,692 | \$ 1,338 | \$ 13,354 | \$ — |
| Total assets | <u>\$ 15,635</u> | <u>\$ 7,176</u> | <u>\$ 8,459</u> | <u>\$ —</u> | <u>\$ 14,692</u> | <u>\$ 1,338</u> | <u>\$ 13,354</u> | <u>\$ —</u> |

(1) Money market funds are presented as a part of cash and cash equivalents on the accompanying consolidated balance sheets as of December 31, 2017 and January 1, 2017.

NOTE 7-INCOME TAXES

The following table presents the U.S. and foreign components of consolidated income (loss) before income taxes and the provision for (benefit from) income taxes (in thousands):

| | Fiscal Years | | |
|--|--------------------|--------------------|--------------------|
| | 2017 | 2016 | 2015 |
| Income (loss) before income taxes: | | | |
| U.S. | \$ (14,253) | \$ (19,340) | \$ (17,897) |
| Foreign | 209 | 257 | 195 |
| Income (loss) before income taxes | <u>\$ (14,044)</u> | <u>\$ (19,083)</u> | <u>\$ (17,702)</u> |
| Provision for (benefit from) income taxes: | | | |
| Current: | | | |
| Federal | \$ — | \$ — | \$ 37 |
| State | 2 | (3) | 2 |
| Foreign | 85 | 75 | 99 |
| Subtotal | <u>87</u> | <u>72</u> | <u>138</u> |
| Deferred: | | | |
| Federal | — | — | — |
| State | — | — | — |
| Foreign | — | (7) | 8 |
| Subtotal | <u>—</u> | <u>(7)</u> | <u>8</u> |
| Provision for income taxes | <u>\$ 87</u> | <u>\$ 65</u> | <u>\$ 146</u> |

Based on the available objective evidence, management believes it is more likely than not that the U.S. net deferred tax assets will not be fully realizable. Accordingly, the Company has provided a full valuation allowance against its U.S. federal and state deferred tax assets at December 31, 2017. Any future release of the valuation allowance may be recorded as a tax benefit increasing net income. The Company believes it is more likely than not it will be able to realize its foreign deferred tax assets. Deferred tax balances are comprised of the following (in thousands):

| | December 31, 2017 | January 1, 2017 |
|-------------------------------|----------------------|-----------------|
| Deferred tax assets: | | |
| Net operating losses | \$ 37,631 | \$ 53,924 |
| Capital losses | 1,726 | 2,938 |
| Accruals and reserves | 1,487 | 1,875 |
| Credits carryforward | 5,743 | 5,080 |
| Depreciation and amortization | 9,056 | 14,415 |
| Stock-based compensation | 343 | 968 |
| | <u>55,986</u> | <u>79,200</u> |
| Valuation allowances | <u>(55,931)</u> | <u>(79,150)</u> |
| Deferred tax asset | <u>\$ 55</u> | <u>\$ 50</u> |
| Deferred tax liability | <u>\$ —</u> | <u>\$ —</u> |

The following table presents the rate reconciliation between income tax provisions at the U.S. federal statutory rate and the effective rate reflected in the consolidated statements of operations:

| | Fiscal Years | | |
|--|--------------|------------|------------|
| | 2017 | 2016 | 2015 |
| Income tax (benefit) at statutory rate | \$ (4,775) | \$ (6,489) | \$ (5,962) |
| State taxes | 2 | (3) | 2 |
| Stock compensation and other permanent differences | 75 | 211 | 286 |
| Foreign taxes | (30) | (19) | 41 |
| Benefit allocated from other comprehensive income (loss) | — | — | — |
| Future benefit of deferred tax assets not recognized | 4,815 | 6,365 | 5,779 |
| Provision for income taxes | \$ 87 | \$ 65 | \$ 146 |

As of December 31, 2017, the Company had net operating loss carryforwards of approximately \$161.1 million for federal and \$53.9 million for state income tax purposes. If not utilized, these carryforwards will expire beginning 2018 for federal and state purposes. The Company early adopted ASU 2016-09 in Q4 2016 and elected to continue to estimate their forfeiture rate rather than recognizing forfeitures as they occur. The ASU 2016-09 is considered to be effective from the beginning of the year of adoption. In the year of adoption, ASU 2016-09 requires that the cumulative effect adjustment be recorded to retained earnings. Due to the full valuation allowance, there is no cumulative effect adjustment to record. Excess windfall net operating loss carryforwards were converted into deferred tax net operating losses with a corresponding increase in valuation allowance as of the beginning of 2016, the year of adoption.

The Company has research credit carryforwards of approximately \$4.2 million for federal and \$4.2 million for state income tax purposes as of December 31, 2017. If not utilized, the federal carryforwards will expire in various amounts beginning in 2018. The California credit can be carried forward indefinitely.

The Tax Cuts and Jobs Act (the "Act") was enacted on December 22, 2017. The Act reduces the US federal corporate tax rate from 35% to 21%, requires companies to pay a one-time transition tax on earnings of certain foreign subsidiaries that were previously tax deferred and creates new taxes on certain foreign sourced earnings. As of December 31, 2017, the Company has not completed the accounting for the tax effects of enactment of the Act; however, in certain cases, as described below, the Company has made a reasonable estimate of the effects on the existing deferred tax balances and the one-time transition tax. For the items for which the Company was able to determine a reasonable estimate, there was no impact on the income tax expense as the impact was on U.S. deferred taxes which are offset by a valuation allowance. In all cases, the Company will continue to make and refine the calculations as additional analysis is completed. In addition, the Company's estimates may also be affected as the Company gains a more thorough understanding of the tax law.

Deferred tax assets and liabilities: The Company remeasured certain deferred tax assets and liabilities based on the rates at which they are expected to reverse in the future, which is generally 21%. However, the Company is still analyzing certain aspects of the Act and refining the calculations, which could potentially affect the measurement of these balances or potentially give rise to new deferred tax amounts. The provisional decrease to the deferred tax asset balance and corresponding decrease to the valuation allowance was approximately \$26.9 million.

Foreign tax effects: The one-time transition tax is based on the Company's total post-1986 earnings and profits or E&P that the Company previously deferred from US income taxes. The Company's one-time transition tax does not generate a tax liability as the deemed distribution is offset by current year taxable losses. The Company has not yet completed the calculation of the total post-1986 E&P for these foreign subsidiaries.

Under the Tax Reform Act of 1986, the amount of and the benefit from net operating loss carryforwards and credit carryforwards may be impaired or limited in certain circumstances. Events which may restrict utilization of a company's net operating loss and credit carryforwards include, but are not limited to, certain ownership change limitations as defined in Internal Revenue Code Section 382 and similar state provisions. In the event the Company has had a change of ownership, utilization of carryforwards could be restricted to an annual limitation. The annual limitation may result in the expiration of net operating loss carryforwards and credit carryforwards before utilization.

The Company has not undertaken a study to determine if its net operating losses are limited. In the event the Company previously experienced an ownership change, or should experience an ownership change in the future, the amount of net operating losses and research and development credit carryovers available in any taxable year could be limited and may expire unutilized.

[Table of Contents](#)

Foreign withholding taxes associated with the repatriation of earnings of foreign subsidiaries were not provided for on a cumulative total of \$742,000 of undistributed earnings for certain foreign subsidiaries as of the end of fiscal 2017. The Company intends to reinvest these earnings indefinitely in the Company's foreign subsidiaries. The Company believes that future domestic cash generation will be sufficient to meet future domestic cash needs. The Company has not recorded a deferred tax liability on the undistributed earnings of non-U.S. subsidiaries. The foreign withholding taxes would not have a material impact on the Company's financial position and results of operation.

A reconciliation of the beginning and ending amount of unrecognized tax benefits is as follows (in thousands):

| | December 31, 2017 | January 1, 2017 | January 3, 2016 |
|---|-------------------|-----------------|-----------------|
| Beginning balance of unrecognized tax benefits | \$ 2,014 | \$ 696 | \$ 516 |
| Additions for tax positions related to the prior year | 16 | 1,204 | (3) |
| Additions for tax positions related to the current year | 77 | 150 | 199 |
| Lapse of statutes of limitations | — | (36) | (16) |
| Ending balance of unrecognized tax benefits | \$ 2,107 | \$ 2,014 | \$ 696 |

Out of \$2.1 million of unrecognized tax benefits, there are no unrecognized tax benefits that would result in a change in the Company's effective tax rate if recognized in future years. The accrued interest and penalties related to uncertain tax positions was not significant for December 31, 2017, January 1, 2017 and January 3, 2016.

The Company is not currently under tax examination and the Company's historical net operating loss and credit carryforwards may be adjusted by the Internal Revenue Service, and other tax authorities until the statute closes on the year in which such tax attributes are utilized. The Company estimates that its unrecognized tax benefits will not change significantly within the next twelve months.

The Company is subject to U.S. federal income tax as well as income taxes in many U.S. states and foreign jurisdictions in which the Company operates. The U.S. tax years from 1998 forward remain effectively open to examination due to the carryover of unused net operating losses and tax credits.

NOTE 8-STOCKHOLDERS' EQUITY

Common and Preferred Stock

As of December 31, 2017, the Company is authorized to issue 200 million shares of common stock and has 10 million shares of authorized but unissued undesignated preferred stock. Without any further vote or action by the Company's stockholders, the Board of Directors has the authority to determine the powers, preferences, rights, qualifications, limitations or restrictions granted to or imposed upon any wholly unissued shares of undesignated preferred stock.

On April 26, 2017, the Company filed an Amended and Restated Certificate of Incorporation with the Secretary of State of the State of Delaware to increase the number of authorized shares of common stock from 100 million to 200 million. The proposal for the amendment was approved by the Company's stockholders at its 2017 Annual Meeting of Stockholders held on April 26, 2017.

Issuance of Common Stock

On December 6, 2016, the Company filed a shelf registration statement on Form S-3 as amended on March, 2017, under which the Company may, from time to time, sell securities in one or more offerings up to a total dollar amount of \$40.0 million. The Company's shelf registration statement was declared effective on March 16, 2017.

Under the shelf registration, in March 2017, the Company issued an aggregate of 11.3 million shares of common stock, \$0.001 par value, in an underwritten public offering at a price of \$1.50 per share. The Company received net proceeds from this offering of approximately \$15.2 million, net of underwriter's commission and other offering expenses.

In March 2016, the Company issued an aggregate of 10.0 million shares of common stock, \$0.001 par value, in an underwritten public offering at a price of \$1.00 per share under the shelf registration that was effective on August 30, 2013 and

[Table of Contents](#)

expired on August 30, 2016. The Company received net proceeds from the offering of approximately \$8.8 million, net of underwriter's commission and other offering expenses.

The Company previously issued 2.3 million warrants exercisable for the Company's common stock with a strike price of \$2.98 in conjunction with a June 2012 financing. These warrants expired in June 2017.

NOTE 9-EMPLOYEE STOCK PLANS

2009 Stock Plan

The 2009 Stock Plan, or 2009 Plan, was amended and restated by the Board of Directors in January 2015 and in February 2017, and approved by the Company's stockholders on April 23, 2015 and on April 26, 2017 to, among other things, reserve an additional 2.5 million and 1.5 million shares of common stock, respectively, for issuance under the 2009 Plan. As of December 31, 2017, approximately 12.4 million shares were reserved for issuance under the 2009 Plan. Equity awards granted under the 2009 Plan have a term of up to ten years. Options typically vest at a rate of 25% one year after the vesting commencement date, and one forty-eighth for each month of service thereafter. RSUs typically vest at a rate of 25% one year after the vesting commencement date, and one eighth every six months thereafter. The Company may implement different vesting schedules in the future with respect to any new equity awards.

Employee Stock Purchase Plan

The 2009 Employee Stock Purchase Plan, or 2009 ESPP, was adopted in March 2009. The 2009 ESPP was amended by the Board of Directors in January 2015 and in February, 2017, and was approved by the Company's stockholders on April 23, 2015 and April 26, 2017, to reserve an additional 1.0 million and 1.5 million shares of common stock, respectively, for issuance under the 2009 ESPP. As of December 31, 2017, approximately 4.8 million shares were reserved for issuance under the 2009 ESPP. The 2009 ESPP provides for six month offering periods. Participants purchase shares through payroll deductions of up to 20% of an employee's total compensation (maximum of 20,000 shares per offering period). The 2009 ESPP permits the Board of Directors to determine, prior to each offering period, whether participants purchase shares at: (i) 85% of the fair market value of the common stock at the end of the offering period; or (ii) 85% of the lower of the fair market value of the common stock at the beginning or the end of an offering period. The Board of Directors has determined that, until further notice, future offering periods will be made at 85% of the lower of the fair market value of the common stock at the beginning or the end of an offering period.

NOTE 10-STOCK-BASED COMPENSATION

The Company's equity incentive program is a broad-based, long-term retention program intended to attract, motivate, and retain talented employees as well as align stockholder and employee interests. The Company provides stock-based incentive compensation, or awards, to eligible employees and non-employee directors. Awards that may be granted under the program include non-qualified and incentive stock options, restricted stock units, or RSUs, performance-based restricted stock units, or PRSUs, and stock bonus units. To date, awards granted under the program consist of stock options, RSUs and PRSUs. The majority of stock-based awards granted under the program vest over four years. Stock options granted under the program have a maximum contractual term of ten years.

Stock-based compensation expense is recognized in the Company's consolidated statements of operations and includes compensation expense for the stock-based compensation awards granted or modified subsequent to January 1, 2006, based on the grant date fair value estimated in accordance with the provisions of the amended authoritative guidance. The impact on the Company's results of operations of recording stock-based compensation expense for fiscal years 2017, 2016, and 2015 was as follows (in thousands):

| | Fiscal Years | | |
|-------------------------------------|--------------|----------|----------|
| | 2017 | 2016 | 2015 |
| Cost of revenue | \$ 121 | \$ 132 | \$ 109 |
| Research and development | 614 | 658 | 826 |
| Selling, general and administrative | 706 | 794 | 1,064 |
| Restructuring costs ⁽¹⁾ | — | — | 29 |
| Total costs and expenses | \$ 1,441 | \$ 1,584 | \$ 2,028 |

[Table of Contents](#)

⁽¹⁾ Stock-based compensation related to restructuring plan initiated in the second quarter of fiscal year 2015.
No stock-based compensation was capitalized during any period presented above.

The amount of stock-based compensation included in inventories at the end of 2017, 2016 and 2015 was not significant.

Stock-Based Compensation Award Activity

The following table summarizes the shares available for grant under the 2009 Plan:

| | Shares Available for Grant (in thousands) |
|------------------------------|---|
| Balance at January 1, 2017 | 2,632 |
| Authorized | 1,500 |
| Options granted | — |
| Options forfeited or expired | 1,356 |
| RSUs granted | (1,852) |
| RSUs forfeited | 263 |
| Balance at December 31, 2017 | 3,899 |

Stock Options

The following table summarizes stock options outstanding and stock option activity under the 2009 Plan, and the related weighted average exercise price, for 2017, 2016 and 2015:

| | Number of Shares (in thousands) | Weighted Average Exercise Price | Weighted Average Remaining Term (in years) | Aggregate Intrinsic Value (in thousands) |
|--|------------------------------------|------------------------------------|--|--|
| Balance outstanding at December 28, 2014 | 5,682 | \$ 2.67 | | |
| Granted | 225 | 1.64 | | |
| Forfeited or expired | (521) | 2.87 | | |
| Exercised | (120) | 0.98 | | |
| Balance outstanding at January 3, 2016 | 5,266 | 2.64 | 4.56 | |
| Granted | 842 | 0.86 | | |
| Forfeited or expired | (1,129) | 2.61 | | |
| Exercised | — | — | | |
| Balance outstanding at January 1, 2017 | 4,979 | 2.35 | 4.06 | |
| Granted | — | — | | |
| Forfeited or expired | (1,356) | 3.07 | | |
| Exercised | (65) | 1.31 | | |
| Balance outstanding at December 31, 2017 | 3,558 | \$ 2.09 | 4.34 | \$ 976 |
| Exercisable at December 31, 2017 | 3,001 | \$ 2.29 | 3.56 | \$ 524 |
| Vested and expected to vest at December 31, 2017 | 3,443 | \$ 2.13 | 4.20 | \$ 879 |

The aggregate intrinsic value in the table above represents the total pretax intrinsic value, based on the Company's closing stock price of \$1.74 per share as of the end of the Company's current reporting period, which would have been received by the option holders had all option holders exercised their options as of that date.

The total intrinsic value of options exercised during 2017, 2016 and 2015 was \$31,000, \$0 and \$83,000, respectively. Total cash received from employees as a result of employee stock option exercises during 2017, 2016 and 2015 was approximately \$85,000, \$0 and \$117,000, respectively. The Company settles employee stock option exercises with newly

[Table of Contents](#)

issued common shares. In connection with these exercises, there was no tax benefit realized by the Company due to the Company's current loss position.

Total stock-based compensation expense recognized related to stock options was \$239,000, \$486,000, and \$861,000 for 2017, 2016, and 2015, respectively. No stock options were granted during the fiscal year 2017. The weighted average estimated fair value for options granted during 2016 and 2015 was \$0.46, and \$0.87 per option, respectively. As of the end of 2017, the fair value of unvested stock options, net of expected forfeitures, was approximately \$260,000. This unrecognized stock-based compensation expense is expected to be recorded over a weighted average period of 2.42 years.

Significant exercise price ranges of options outstanding, related weighted average exercise prices and contractual life information at the end of 2017 were as follows:

| Range of Exercise Prices | Options Outstanding | | | Options Exercisable | |
|--------------------------|---------------------|---|---------------------------------|--------------------------------|---------------------------------|
| | Options Outstanding | Weighted Average Remaining Contractual Life | Weighted Average Exercise Price | Options Vested and Exercisable | Weighted Average Exercise Price |
| | (in thousands) | (in years) | | (in thousands) | |
| \$0.78 | 4 | 1.17 | \$ 0.78 | 4 | \$ 0.78 |
| \$0.86 | 726 | 8.68 | 0.86 | 227 | 0.86 |
| \$0.90 - \$1.32 | 359 | 2.11 | 0.98 | 327 | 0.94 |
| \$1.63 | 545 | 1.27 | 1.63 | 545 | 1.63 |
| \$2.17 - \$2.65 | 307 | 4.42 | 2.25 | 307 | 2.25 |
| \$2.78 | 958 | 2.94 | 2.78 | 958 | 2.78 |
| \$2.82 - \$3.36 | 231 | 5.30 | 3.15 | 211 | 3.15 |
| \$3.39 | 243 | 5.95 | 3.39 | 243 | 3.39 |
| \$3.48 | 120 | 3.85 | 3.48 | 120 | 3.48 |
| \$3.82 | 65 | 6.08 | 3.82 | 59 | 3.82 |
| \$0.78 - \$3.82 | 3,558 | 4.34 | \$ 2.09 | 3,001 | \$ 2.29 |

Valuation Assumptions

The Company uses the Black-Scholes option pricing model to estimate the fair value of employee stock options and rights to purchase shares under the Company's 2009 ESPP. Using the Black-Scholes pricing model requires the Company to develop highly subjective assumptions including the expected term of awards, expected volatility of its stock, expected risk-free interest rate and expected dividend rate over the term of the award. The Company's expected term of awards assumption is based primarily on its historical experience with similar grants. The Company's expected stock price volatility assumption for both stock options and ESPP shares is based on the historical volatility of the Company's stock, using the daily average of the opening and closing prices and measured using historical data appropriate for the expected term. The risk-free interest rate assumption approximates the risk-free interest rate of a Treasury Constant Maturity bond with a maturity approximately equal to the expected term of the stock option or ESPP shares. This fair value is expensed over the requisite service period of the award. The fair value of RSUs and PRSUs is based on the closing price of the Company's common stock on the date of grant. Equity compensation awards which vest with service are expensed using the straight-line attribution method over the requisite service period.

In addition to the assumptions used in the Black-Scholes pricing model, the amended authoritative guidance requires that the Company recognize expense for awards ultimately expected to vest; therefore the Company is required to develop an estimate of the number of awards expected to be forfeited prior to vesting, or forfeiture rate. The forfeiture rate is estimated based on historical pre-vest cancellation experience and is applied to all share-based awards.

The following weighted average assumptions are included in the estimated fair value calculations for stock option grants:

| | Fiscal Years | | |
|-------------------------|--------------|-------|-------|
| | 2017 | 2016 | 2015 |
| Expected term (years) | NA | 7.1 | 6.3 |
| Risk-free interest rate | NA | 1.40% | 1.75% |
| Expected volatility | NA | 52% | 56% |
| Expected dividend | NA | — | — |

The methodologies for determining the above values were as follows:

- Expected term: The expected term represents the period that the Company's stock-based awards are expected to be outstanding and is estimated based on historical experience.
- Risk-free interest rate: The risk-free interest rate assumption is based upon the risk-free rate of a Treasury Constant Maturity bond with a maturity appropriate for the expected term of the Company's employee stock options.
- Expected volatility: The Company determines expected volatility based on historical volatility of the Company's common stock according to the expected term of the options.
- Expected dividend: The expected dividend assumption is based on the Company's intent not to issue a dividend under its dividend policy.

Restricted Stock Units

The Company grants restricted stock units, or RSUs, to employees with various vesting terms. RSUs entitle the holder to receive, at no cost, one common share for each restricted stock unit on the vesting date as it vests. The Company withholds shares in settlement of employee tax withholding obligations upon the vesting of restricted stock units. Stock-based compensation related to grants of vested RSUs was \$1.0 million, \$953,000, \$834,000 in 2017, 2016 and 2015, respectively.

The following table summarizes RSU's activity under the 2009 Plan, and the related weighted average grant date fair value, for 2017, 2016 and 2015:

| | RSUs & PRSUs Outstanding | |
|--------------------------------|------------------------------------|---|
| | Number of Shares (in thousands) | Weighted Average Grant Date Fair Value |
| Nonvested at December 28, 2014 | 650 | \$ 3.47 |
| Granted | 1,128 | 1.46 |
| Vested | (221) | 1.42 |
| Forfeited | (122) | — |
| Nonvested at January 3, 2016 | 1,435 | 2.30 |
| Granted | 1,822 | 0.97 |
| Vested | (649) | 1.07 |
| Forfeited | (1,238) | — |
| Nonvested at January 1, 2017 | 1,370 | 1.68 |
| Granted | 1,852 | 1.41 |
| Vested | (596) | 1.46 |
| Forfeited | (263) | — |
| Nonvested at December 31, 2017 | 2,363 | \$ 1.54 |

Employee Stock Purchase Plan

The weighted average estimated fair value, as defined by the amended authoritative guidance, of rights issued pursuant to the Company's ESPP during 2017, 2016 and 2015 was \$0.43, \$0.62 and \$0.42, respectively. Sales under the ESPP were 538,000 shares of common stock at an average price of \$0.86 for 2017, 732,000 shares of common stock at an average price of \$0.81 for 2016, and 458,000 shares of common stock at an average price of \$1.26 for 2015.

[Table of Contents](#)

Under the 2009 ESPP, the Company issued 538,000 shares at an average price of \$0.86 per share during 2017. As of December 31, 2017, 1.6 million shares under the 2009 ESPP remained available for issuance. For 2017, the Company recorded compensation expenses related to the ESPP of \$153,000, \$258,000 and \$232,000 in 2017, 2016 and 2015, respectively.

The fair value of rights issued pursuant to the Company's ESPP was estimated on the commencement date of each offering period using the following weighted average assumptions:

| | Fiscal Years | | |
|-------------------------|--------------|-------|-------|
| | 2017 | 2016 | 2015 |
| Expected life (months) | 6.1 | 6.1 | 6.0 |
| Risk-free interest rate | 1.22% | 0.97% | 0.21% |
| Volatility | 53% | 59% | 55% |
| Dividend yield | — | — | — |

The methodologies for determining the above values were as follows:

- Expected term: The expected term represents the length of the purchase period contained in the ESPP.
- Risk-free interest rate: The risk-free interest rate assumption is based upon the risk-free rate of a Treasury Constant Maturity bond with a maturity appropriate for the term of the purchase period.
- Volatility: The Company determines expected volatility based on historical volatility of the Company's common stock for the term of the purchase period.
- Dividend Yield: The expected dividend assumption is based on the Company's intent not to issue a dividend under its dividend policy.

As of the end of 2017, the unrecognized stock-based compensation expense relating to the Company's ESPP was \$80,000 and was expected to be recognized over a weighted average period of approximately 4.5 months.

NOTE 11-INFORMATION CONCERNING PRODUCT LINES, GEOGRAPHIC INFORMATION, ACCOUNTS RECEIVABLE AND REVENUE CONCENTRATION

The Company identifies its business segments based on business activities, management responsibility and geographic location. For all periods presented, the Company operated in a single reportable business segment.

The following is a breakdown of revenue by product family (in thousands):

| | Fiscal Years | | |
|--|------------------|------------------|------------------|
| | 2017 | 2016 | 2015 |
| <i>Revenue by product line ⁽¹⁾:</i> | | | |
| New products | \$ 5,853 | \$ 5,622 | \$ 12,020 |
| Mature products | 6,296 | 5,799 | 6,936 |
| Total revenue | <u>\$ 12,149</u> | <u>\$ 11,421</u> | <u>\$ 18,956</u> |

(1) For all periods presented: New products include all products manufactured on 180 nanometer or smaller semiconductor processes. Mature products include all products produced on semiconductor processes larger than 180 nanometers. eFPGA IP license revenue is also included in new product revenue.

[Table of Contents](#)

The following is a breakdown of revenue by shipment destination (in thousands):

| | Fiscal Years | | |
|------------------------------|------------------|------------------|------------------|
| | 2017 | 2016 | 2015 |
| <i>Revenue by geography:</i> | | | |
| Asia Pacific ⁽¹⁾ | \$ 5,810 | \$ 7,131 | \$ 12,650 |
| Europe | 2,015 | 1,386 | 1,859 |
| North America ⁽²⁾ | 4,324 | 2,904 | 4,447 |
| Total revenue | <u>\$ 12,149</u> | <u>\$ 11,421</u> | <u>\$ 18,956</u> |

⁽¹⁾ Asia Pacific includes revenue from South Korea of \$2.1 million or 17% of total revenue in 2017 and 3.6 million or 31% of total revenue in 2016.

⁽²⁾ North America includes revenue from the United States of \$4.2 million or 34% of total revenue in 2017 and 2.8 million or 25% of total revenue in 2016.

The following distributors and customers accounted for 10% or more of the Company's revenue for the periods presented:

| | Fiscal Years | | |
|-----------------|--------------|------|------|
| | 2017 | 2016 | 2015 |
| Distributor "A" | 33% | 26% | 23% |
| Customer "B" | 11% | 14% | 13% |
| Customer "G" | 19% | 33% | 43% |

The following distributors and customers accounted for 10% or more of the Company's accounts receivable as of the dates presented:

| | December 31, 2017 | January 1, 2017 |
|-----------------|----------------------|--------------------|
| Distributor "A" | 45% | 32% |
| Distributor "G" | — | 11% |
| Distributor "H" | * | 13% |
| Distributor "I" | * | 15% |
| Customer "G" | 12% | * |
| Customer "I" | * | 12% |

* Represents less than 10% of accounts receivable as of the date presented.

As of December 31, 2017 and January 1, 2017, less than 10% of the Company's long-lived assets, including property and equipment and other assets were located outside the United States.

NOTE 12-COMMITMENTS

Commitments

Certain wafer manufacturers require the Company to forecast wafer starts several months in advance. The Company is committed to take delivery of and pay for a portion of forecasted wafer volume. As of the end of 2017 and 2016, the Company had \$1.1 million and \$1.6 million respectively, of outstanding commitments for the purchase of wafer inventory.

The Company has purchase obligations with certain suppliers for the purchase of goods and services entered into in the ordinary course of business. As of December 31, 2017, total outstanding purchase obligations due within the next 12 months were \$1.6 million.

[Table of Contents](#)

The Company leases its primary facility under a non-cancelable operating lease that expires on December 31, 2018. In addition, the Company rents development facilities in India as well as sales offices in Europe and Asia. Total rent expense, net of sublease income, during 2017, 2016 and 2015 was approximately \$866,000, \$834,000 and \$878,000 respectively.

Operating Lease obligations

Future minimum lease commitments under the Company's operating leases, net of sublease income and excluding property taxes and insurance are as follows:

| | Operating Leases | |
|--------------|-------------------------|--------------|
| | (in thousands) | |
| Fiscal Years | | |
| 2018 | \$ | 835 |
| 2019 | | 171 |
| 2020 | | 176 |
| 2021 | | 88 |
| | \$ | <u>1,270</u> |

Capital Lease obligations

The Company leases various design software under capital leases typically with a two or three year terms. Future minimum lease commitments under the Company's capital lease are as follows:

| | Capital leases | |
|--------------|-----------------------|------------|
| | (in thousands) | |
| Fiscal Years | | |
| 2018 | \$ | 299 |
| 2019 | | 355 |
| | \$ | <u>654</u> |

NOTE 13-LITIGATION

From time to time, the Company may become involved in legal actions arising in the ordinary course of business including, but not limited to, intellectual property infringement and collection matters. Absolute assurance cannot be given that any such third party assertions will be resolved without costly litigation; in a manner that is not adverse to the Company's financial position, results of operations or cash flows; or without requiring royalty or other payments which may adversely impact gross profit.

NOTE 14-RESTRUCTURING CHARGES

In June 2015, the Company implemented a restructuring plan to re-align the organization to support the Company's sensor processing provider business model and growth strategy. The Company paid out the remaining outstanding balance of \$121,000 of restructuring charges in 2016. There were no new charges in 2016 and 2017.

NOTE 15-SUBSEQUENT EVENTS

1. On January 2, 2018, the Company repaid \$6.0 million of revolving debt at an interest rate of 4.31%.
2. On February 8, 2018, the Company entered into a Sixth Amendment to Lease with Goggle, Inc. (as successor for NetApp, Inc.) to extend the current term of the lease of its principal place of business for an additional fifteen months from January 1, 2019 through March 31, 2020. Total rent payable for the 15-month period is \$900,000.

SUPPLEMENTARY FINANCIAL DATA
QUARTERLY DATA (UNAUDITED)

| | Quarter Ended | | | | | | | |
|---|----------------------|--------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|
| | December 31, 2017 | October 1, 2017 | July 2, 2017 | April 2, 2017 | January 1, 2017 | October 2, 2016 | July 3, 2016 | April 3, 2016 |
| (in thousands, except per share amount) | | | | | | | | |
| Statements of Operations: | | | | | | | | |
| Revenue | \$ 2,981 | \$ 2,972 | \$ 3,026 | \$ 3,170 | \$ 2,945 | \$ 2,809 | \$ 2,717 | \$ 2,950 |
| Cost of revenue | 1,478 | 1,706 | 1,646 | 1,797 | 1,995 | 1,918 | 1,941 | 1,794 |
| Gross profit ⁽¹⁾ | 1,503 | 1,266 | 1,380 | 1,373 | 950 | 891 | 776 | 1,156 |
| Operating expenses: | | | | | | | | |
| Research and development | 2,458 | 2,368 | 2,319 | 2,427 | 2,380 | 2,755 | 3,683 | 3,447 |
| Selling, general and administrative | 2,519 | 2,353 | 2,614 | 2,414 | 2,322 | 2,704 | 2,591 | 2,693 |
| Loss from operations | (3,474) | (3,455) | (3,553) | (3,468) | (3,752) | (4,568) | (5,498) | (4,984) |
| Interest expense | (18) | (15) | (21) | (61) | (66) | (37) | (34) | (38) |
| Interest income and other expense, net | 23 | (3) | 1 | — | (43) | (41) | (15) | (7) |
| Loss before taxes | (3,469) | (3,473) | (3,573) | (3,529) | (3,861) | (4,646) | (5,547) | (5,029) |
| Provision for (benefit from) income taxes | (60) | 77 | 34 | 36 | (3) | (23) | 27 | 64 |
| Net loss | <u>\$ (3,409)</u> | <u>\$ (3,550)</u> | <u>\$ (3,607)</u> | <u>\$ (3,565)</u> | <u>\$ (3,858)</u> | <u>\$ (4,623)</u> | <u>\$ (5,574)</u> | <u>\$ (5,093)</u> |
| Net loss per share: | | | | | | | | |
| Basic and Diluted | <u>\$ (0.04)</u> | <u>\$ (0.04)</u> | <u>\$ (0.05)</u> | <u>\$ (0.05)</u> | <u>\$ (0.05)</u> | <u>\$ (0.07)</u> | <u>\$ (0.08)</u> | <u>\$ (0.09)</u> |
| Weighted average shares: | | | | | | | | |
| Basic and Diluted | <u>80,353</u> | <u>80,125</u> | <u>79,799</u> | <u>68,794</u> | <u>67,941</u> | <u>67,781</u> | <u>67,415</u> | <u>58,371</u> |

⁽¹⁾ Gross profit percentage ranged between 29% to 50% in the last 8 quarters primarily as a result of changes in customer and product mix, favorable purchase price adjustments, and favorable standard cost variances during these quarters.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures designed to ensure that information required to be disclosed in the reports we file or submit pursuant to the Securities and Exchange Act of 1934, as amended (the "Exchange Act"), is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the Securities and Exchange Commission, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Management, with the participation of the Chief Executive Officer and Chief Financial Officer, has performed an evaluation of our disclosure controls and procedures as required by the applicable rules of the Exchange Act. Based on this evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that, as of December 31, 2017 our disclosure controls and procedures were effective.

Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Securities Exchange Act of 1934, as amended. Internal control over financial reporting is the process designed by, or under the supervision of, our Chief Executive Officer and Chief Financial Officer, and effected by our board of directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements for external purposes in accordance with generally accepted accounting principles, and includes those policies and procedures that: (i) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect our transactions and dispositions of assets; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of consolidated financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our assets that could have a material effect on the financial statements.

Because of its inherent limitations, cost-effective internal control over financial reporting cannot provide absolute assurance of achieving financial reporting objectives. Internal control over financial reporting is a process that involves human diligence and compliance and is subject to lapses in judgment and breakdowns resulting from human failures. Internal control over financial reporting also can be circumvented by collusion or improper management override. Because of such limitations, there is a risk that material misstatements may not be prevented or detected on a timely basis by internal control over financial reporting. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions or that the degree of compliance with established policies or procedures may deteriorate.

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we conducted an assessment of the effectiveness of our internal control over financial reporting as of the end of the period covered by this Annual Report on Form 10-K. In making this assessment, we used the criteria based on the framework set forth by the Committee of Sponsoring Organizations of the Treadway Commission in "Internal Control - Integrated Framework (2013)." Based on the results of this assessment, management (including our Chief Executive Officer and Chief Financial Officer) has concluded that, as of December 31, 2017 our internal control over financial reporting was effective.

The effectiveness of the Company's internal control over financial reporting as of December 31, 2017 has been audited by Moss Adams LLP, an independent registered public accounting firm, as stated in their report appearing in this Annual Report on Form 10-K.

Changes in Internal Control Over Financial Reporting

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

ITEM 9B. OTHER INFORMATION

None.

PART III

Certain information required by Part III is incorporated by reference from the definitive Proxy Statement regarding our 2018 Annual Meeting of Stockholders and will be filed not later than 120 days after the end of the fiscal year covered by this Report.

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding the backgrounds of our officers is contained herein under Item 1, “Executive Officers and Directors.”

Information regarding the backgrounds of our directors is set forth under the caption “Proposal One, Election of Directors” in our Proxy Statement, which information is incorporated herein by reference.

There are no family relationships between any of our directors, executive officers, or persons nominated or chosen to be a director or officer, and no such persons have been involved during the last ten years, in any legal proceedings material to their abilities or integrity.

Information regarding our Audit Committee, our Audit Committee financial expert, the procedures by which security holders may recommend nominees to our Board and our Code of Conduct and Ethics is hereby incorporated herein by reference from the section entitled “Board Meetings, Committees and Corporate Governance” in the Proxy Statement. A copy of our Code of Conduct and Ethics is posted on our website at <http://www.quicklogic.com/corporate/about-us/management>. We intend to satisfy the disclosure requirement under Item 5.05 of Form 8-K regarding an amendment to, or a waiver from, this Code of Conduct and Ethics by posting such information on our website <http://www.quicklogic.com/corporate/about-us/management>.

Information regarding compliance with Section 16(a) of the Securities Exchange Act of 1934, as amended, is incorporated herein by reference from the section entitled “Section 16(a) Beneficial Ownership Reporting Compliance” in the Proxy Statement.

ITEM 11. EXECUTIVE COMPENSATION

The information required by Item 11 is set forth under the captions “Compensation Committee Interlocks and Insider Participation,” and “Executive Compensation, Compensation Discussion and Analysis” in our Proxy Statement, which information is incorporated herein by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by Item 12 is set forth under the captions “Equity Compensation Plan Summary”, “Post-Employment and Change of Control Compensation” and “Security Ownership” in our Proxy Statement, which information is incorporated herein by reference.

ITEM 13. CERTAIN RELATIONSHIPS, RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

The information required by Item 13 is set forth under the captions “Board Meetings, Committees and Corporate Governance” and “Transactions with Related Persons” in our Proxy Statement, which information is incorporated herein by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by Item 14 is set forth under the caption “Fees Billed to QuickLogic by Moss Adams LLP during Fiscal Years 2017 and 2016” in our Proxy Statement, which information is incorporated herein by reference.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) 1. Financial Statements

Reference is made to Item 8 for a list of all financial statements and schedules filed as a part of this Report.

2. Financial Statement Schedules

QuickLogic Corporation Valuation and Qualifying Accounts (in thousands)

| | Balance at Beginning of Period | Charged to Costs and Expenses | Deductions/Write-offs | Balance at End of Period |
|---|--------------------------------------|-------------------------------------|-----------------------|-----------------------------|
| <i>Allowance for Doubtful Accounts:</i> | | | | |
| Fiscal Year 2017 | \$ — | \$ — | \$ — | \$ — |
| Fiscal Year 2016 | \$ — | \$ — | \$ — | \$ — |
| Fiscal Year 2015 | \$ — | \$ — | \$ — | \$ — |
| <i>Allowance for Deferred Tax Assets:</i> | | | | |
| Fiscal Year 2017 | \$ 79,150 | \$ — | \$ (23,219) | \$ 55,931 |
| Fiscal Year 2016 | \$ 69,349 | \$ 9,801 | \$ — | \$ 79,150 |
| Fiscal Year 2015 | \$ 66,618 | \$ 2,731 | \$ — | \$ 69,349 |

All other schedules not listed above have been omitted because the information required to be set forth therein is not applicable or is shown in the financial statements or notes hereto.

3. Exhibits

The exhibits listed under Item 15(b) hereof are filed as part of this Annual Report on Form 10-K.

(b) Exhibits

The following exhibits are filed with or incorporated by reference into this Report:

| Exhibit Number | Description |
|-----------------------|--|
| 3.1 ⁽¹⁹⁾ | Fourth Amended and Restated Certificate of Incorporation of the Registrant. |
| 3.2 ⁽²⁾ | Bylaws of the Registrant. |
| 3.3 ⁽³⁾ | Certificate of Elimination of the Series A Junior Participating Preferred Stock. |
| 4.1 ⁽¹⁾ | Specimen Common Stock certificate of the Registrant. |
| 4.2 ⁽⁴⁾ | Form of Common Stock Warrant. |
| 10.1 ⁽⁵⁾ | Form of Indemnification Agreement for directors and executive officers. |
| 10.2 ^(1,5) | Lease dated June 17, 1996, as amended, between Kairos, LLC and Orchard Moffet Investors as Landlord and the Registrant for the Registrant's facility located in Sunnyvale, California. |
| 10.2.1 ⁽⁶⁾ | Second Amendment to Lease Agreement between NetApp, Inc. (as successor-in-interest to Orchard Moffett Investors and Kairos, LLC.) and QuickLogic Corporation effective September 25, 2008. |

[Table of Contents](#)

| | |
|-------------------------|---|
| 10.2.2 ⁽⁷⁾ | Third Amendment to Lease between NetApp, Inc. and QuickLogic Corporation dated August 3, 2012. |
| 10.2.3 ⁽⁸⁾ | Fourth Amendment to Lease between NetApp, Inc. and QuickLogic Corporation dated April 4, 2014. |
| 10.2.4 ⁽¹¹⁾ | Fifth Amendment to Lease between NetApp, Inc. and QuickLogic Corporation dated May 22, 2015. |
| 10.2.5 | Sixth Amendment to Lease between Google, Inc.(as successor to NetApp Inc.) and QuickLogic Corporation dated February 8, 2018. |
| 10.3 ⁽¹⁾ | Patent Cross License Agreement dated August 25, 1998 between the Registrant and Actel Corporation. |
| 10.4 ⁽⁹⁾ | Form of Change of Control Severance Agreement. |
| 10.5 ⁽⁹⁾ | Form of Change of Control Severance Agreement for Chief Executive Officer. |
| 10.6 ⁽¹⁰⁾ | 2005 Executive Bonus Plan, as restated. |
| 10.7 ⁽²⁰⁾ | QuickLogic Corporation 2009 Stock Plan. |
| 10.8 ⁽²⁰⁾ | QuickLogic Corporation 2009 Employee Stock Purchase Plan. |
| 10.9 ⁽¹²⁾ | Form of Notice of Grant and Stock Option Agreement under the 2009 Stock Plan. |
| 10.10 ⁽¹²⁾ | Form of Notice of Grant of Stock Purchase Rights and Restricted Stock Purchase Agreement under the 2009 Stock Plan. |
| 10.11 ⁽¹²⁾ | Form of Notice of Grant of Restricted Stock Unit and Restricted Stock Unit Agreement under the 2009 Stock Plan. |
| 10.12 ⁽¹³⁾ | Form of Subscription Agreement. |
| 10.13 ⁽¹⁴⁾ | Third Amended and Restated Loan and Security Agreement between Silicon Valley Bank and the registrant effective June 30, 2014. |
| 10.13.1 ⁽¹⁵⁾ | First Amendment to Third Amended and Restated Loan and Security Agreement between Silicon Valley Bank and the registrant effective September 26, 2014. |
| 10.13.2 ⁽¹⁶⁾ | Second Amendment to Third Amended and Restated Loan and Security Agreement between Silicon Valley Bank and the registrant effective September 25, 2015. |
| 10.13.3 ⁽¹⁷⁾ | Third Amendment to Third Amended and Restated Loan and Security Agreement between Silicon Valley Bank and the registrant effective February 10, 2016. |
| 10.13.4 ⁽¹⁸⁾ | Fourth Amendment to Third Amended and Restated Loan and Security Agreement between Silicon Valley Bank and the registrant effective August 31, 2017. |
| 10.14 ⁽²²⁾ | Consulting Agreement between QuickLogic Corporation and Andrew J. Pease, dated July 6, 2016. |
| 10.15 ⁽²¹⁾ | Underwriting agreement between Quicklogic Corporation and Craig-Hallum Capital Group LLC, dated March 23, 2017. |
| 21 | Subsidiaries of the registrant. |
| 23.1 | Consent of Moss Adams LLP, Independent Registered Public Accounting Firm. |
| 23.2 | Consent of BDO USA, LLP Independent Registered Public Accounting Firm. |
| 31.1 | CEO Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. |
| 31.2 | CFO Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. |
| 32 | CEO and CFO Certifications pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. |
| 101.INS | XBRL Instance Document |
| 101.SCH | XBRL Taxonomy Extension Schema Document |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document |
| 101.LAB | XBRL Taxonomy Extension Label Linkbase Document |
| 101.PRE | XBRL Taxonomy Extension Presentation Linkbase Document |

-
- (1) Incorporated by reference to QuickLogic's Registration Statement on Form S-1 declared effective October 14, 1999 (Commission File No. 333-28833).
 - (2) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 5.03) filed on May 2, 2005).
 - (3) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 5.03) filed on November 26, 2013.
 - (4) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01) filed on November 17, 2009.
 - (5) Incorporated by reference to QuickLogic's Quarterly Report on Form 10-Q filed on November 13, 2002 (Commission File No. 000-22671).
 - (6) Incorporated by reference to QuickLogic's Quarterly Report on Form 10-Q filed on November 6, 2008 (Commission File No. 000-22671).
 - (7) Incorporated by reference to QuickLogic's Quarterly Report on Form 10-Q filed on August 3, 2012 (Commission File No. 000-22671).
 - (8) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01) filed on April 8, 2014.
 - (9) Incorporated by reference to QuickLogic's Annual Report on Form 10-K filed on March 11, 2008 (Commission File No. 000-22671).
 - (10) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01) filed on April 28, 2008.
 - (11) Incorporated by reference to QuickLogic's Quarterly Report on Form 10-Q filed on November 3, 2015 (Commission File No. 000-22671).
 - (12) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01 and Item 5.02) filed on August 4, 2009.
 - (13) Incorporated by reference to QuickLogic's Current Report on Form 8-K/A (Item 1.01) filed on November 17, 2009.
 - (14) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01) filed on July 2, 2014.
 - (15) Incorporated by reference to the Company's Quarterly Report on Form 10-Q filed on November 4, 2014 (Commission File No. 000-22671).
 - (16) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01) filed on October 1, 2015.
 - (17) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01) filed on February 10, 2016.
 - (18) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01) filed on September 5, 2017.
 - (19) Incorporated by reference to QuickLogic's Current Report on Form 8-K (Item 1.01) filed on April 28, 2017 (Commission file No.000-22671).
 - (20) Incorporated by reference to QuickLogic's Quarterly Report on Form 10-Q filed on May 11, 2017 (Commission File No. 000-22671).
 - (21) Incorporated by reference to QuickLogic's Quarterly Report on Form 8-K filed on March 28, 2017 (Commission File No. 000-22671).
 - (22) Incorporated by reference to QuickLogic's Quarterly Report on Form 10-Q filed on August 10, 2016 (Commission File No. 000-22671).

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized on this March 9, 2018.

QUICKLOGIC CORPORATION

By: /s/ Brian C. Faith
 Brian C. Faith
President and Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Brian C. Faith and Suping (Sue) Cheung and each of them singly, as true and lawful attorneys-in-fact and agents with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities to sign this Annual Report on Form 10-K filed herewith and any or all amendments to said report, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission granting unto said attorneys-in-fact and agents the full power and authority to do and perform each and every act and the thing requisite and necessary to be done in and about the foregoing, as to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or his substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, this report has been signed by the following persons on behalf of the registrant and in the capacities and on the dates indicated below.

| Signature | Title | Date |
|--|--|---------------|
| /s/ BRIAN C. FAITH Brian C. Faith | President and Chief Executive Officer; Director (Principal Executive Officer) | March 9, 2018 |
| /s/ SUPING (SUE) CHEUNG Suping (Sue) Cheung | Vice President, Finance and Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer) | March 9, 2018 |
| /s/ E. THOMAS HART E. Thomas Hart | Chairman of the Board | March 9, 2018 |
| /s/ ANDREW J. PEASE Andrew J. Pease | Director | March 9, 2018 |
| /s/ MICHAEL R. FARESE Michael R. Farese | Director | March 9, 2018 |
| /s/ ARTURO KRUEGER Arturo Krueger | Director | March 9, 2018 |
| /s/ DANIEL A. RABINOVITSJ Daniel A. Rabinovitsj | Director | March 9, 2018 |
| /s/ CHRISTINE RUSSELL Christine Russell | Director | March 9, 2018 |
| /s/ GARY H. TAUSS Gary H. Tauss | Director | March 9, 2018 |

SIXTH AMENDMENT TO LEASE

THIS SIXTH AMENDMENT TO LEASE (this "Amendment") is made and entered into effective as of February 8, 2018 (the "Effective Date"), by and between GOOGLE LLC, a Delaware limited liability company ("Landlord"), and QUICKLOGIC CORPORATION, a Delaware corporation ("Tenant").

RECITALS:

A. Landlord and Tenant are parties to that certain Lease (as defined below), pursuant to which Landlord is currently leasing to Tenant, and Tenant is currently leasing from Landlord, certain space (the "Premises") containing approximately 34,203 rentable square feet located in that certain building addressed as 1277 Orleans Drive, Sunnyvale, California (the "Building"). As used herein, "Lease" shall mean and refer, collectively, to the following document(s):

- i. Lease dated as of June 17, 1996 (the "Original Lease"), between Kairos, LLC, a California limited liability company ("Kairos") and Orchard Moffet Investors, a California general partnership ("Moffet," and together with Kairos, collectively, "KM") (collectively, as predecessor-in-interest to Landlord), and Tenant; and
- ii. First Addendum to Lease dated as of June 17, 1996 (the "First Addendum"), between KM and Tenant; and
- iii. First Amendment to Lease dated as of July 31, 2002 (the "First Amendment"), between KM and Tenant; and
- iv. Second Amendment to Lease dated as of September 25, 2008 (the "Second Amendment"), between NetApp, Inc., a Delaware corporation ("NetApp") (as successor-in-interest to KW), and Tenant; and
- v. Third Amendment to Lease dated as of July 16, 2012 (the "Third Amendment"), between NetApp and Tenant; and
- vi. Fourth Amendment to Lease dated as of April 2, 2014 (the "Fourth Amendment"), between NetApp and Tenant; and
- vii. Fifth Amendment to Lease dated as of May 22, 2015 (the "Fifth Amendment"), between NetApp (as predecessor-in-interest to Landlord), and Tenant.

B. Landlord and Tenant now desire to amend the Lease (i) to further extend the Lease Term (as defined in the Original Lease), and (ii) to modify various terms and provisions of the Lease, all as hereinafter provided.

AGREEMENT:

NOW THEREFORE, in consideration of the foregoing recitals and the mutual covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. Capitalized Terms. All capitalized terms when used herein shall have the same meanings given such terms in the Lease unless expressly superseded by the terms of this Amendment.

2. Extension of Lease Term. The Lease Term, as previously extended, including by the Extended Term (as defined in the Second Amendment), the Second Extended Term (as defined in the Third Amendment), and the Third Extended Term (as defined in the Fourth Amendment), which is currently scheduled to expire on December 31, 2018, is hereby extended for a period of fifteen (15) months, commencing on January 1, 2019 (the "**Sixth Amendment Extended Term Commencement Date**") and expiring on March 31, 2020 (the "**Revised Expiration Date**"), unless sooner terminated pursuant to the terms of the Lease, as hereby amended (the period commencing on the Sixth Amendment Extended Term Commencement Date and expiring on the Revised Expiration Date is hereinafter referred to as the "**Sixth Amendment Extended Term**"). Notwithstanding the foregoing or anything to the contrary contained in the Lease, in consideration of the rights granted in this Amendment, Landlord and Tenant shall each have the right to terminate the Lease, as hereby amended, at any time after July 1, 2018 by providing nine (9) months' prior written termination notice (the "**Termination Notice**") to the non-terminating party, in which event, the Lease, as hereby amended, shall terminate as of the date (the "**Termination Date**") which is nine (9) months after the delivery of the Termination Notice (the earliest Termination Date hereby being agreed to be March 31, 2019). If neither Landlord nor Tenant theretofore have delivered the Termination Notice, then the Lease, as hereby amended, shall terminate as of, and the "Termination Date" shall be, the Revised Expiration Date. Following the Termination Date, the parties shall be relieved of all obligations under the Lease, as hereby amended, except for Tenant's indemnity obligations, Tenant's obligations under the Lease, as hereby amended, which accrued on or prior to the Termination Date, and any obligations that would expressly survive the expiration or earlier termination of the Lease, all of which shall survive the Termination Date. If Tenant fails to vacate and surrender exclusive possession of the Premises to Landlord on or prior to the Termination Date, then the applicable holdover provisions of the Lease, as hereby amended, shall apply, except that, effective as of the Effective Date, the holdover rent referenced in Section 15.3 of the Original Lease shall be increased from 150% to 200% of the Base Monthly Rent payable during the last full calendar month of the Lease Term.

3. Base Monthly Rent. Prior to the Sixth Amendment Extended Term Commencement Date, the Base Monthly Rent payable by Tenant shall continue to be as set forth in the Lease. During the Sixth Amendment Extended Term, Tenant shall pay monthly installments of Base Monthly Rent to Landlord for the Premises as set forth in the following schedule:

| Period of Sixth Amendment Extended Term | Monthly Installment of Base Monthly Rent |
|---|---|
| 01/01/19 – 12/31/19 (if applicable) | \$60,197.28 |
| 01/01/20- Revised Expiration Date (if applicable) | \$62,003.20 |

Tenant shall continue to pay Tenant's Share of all Common Operating Expenses in accordance with the terms of the Lease.

4. Condition of Premises. Tenant is currently in possession of the Premises and shall continue to accept and occupy the Premises and the Building in their current "AS IS" condition as of the Effective Date and the Sixth Amendment Extended Term Commencement Date without any agreements, representations, understandings or obligations on the part of Landlord to perform or pay for any alterations, repairs or improvements to the Premises, except as otherwise expressly set forth in the Lease, as hereby amended.

5. Landlord's Address for Notices. Effective as of the Effective Date, all notices, consents, demands and other communications delivered by Tenant to Landlord pursuant to and in accordance with the Lease must be addressed to the following addresses:

Originals sent to:

Google LLC
1600 Amphitheatre Parkway
Mountain View, California 94043
Attention: Lease Administration

and

Google LLC
1600 Amphitheatre Parkway
Mountain View, California 94043
Attention: Legal Department / RE Matters

6. California Statutory CASp Disclosure. For purposes of Section 1938(a) of the California Civil Code, Landlord hereby discloses to Tenant, and Tenant hereby acknowledges, that the Premises have not undergone inspection by a Certified Access Specialist (CASp). In addition, the following notice is hereby provided pursuant to Section 1938(e) of the California Civil Code: "A Certified Access Specialist (CASp) can inspect the subject premises and determine whether the subject premises comply with all of the applicable construction-related accessibility standards under state law. Although state law does not require a CASp inspection of the subject premises,

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the commercial property owner or lessor may not prohibit the lessee or tenant from obtaining a CASp inspection of the subject premises for the occupancy or potential occupancy of the lessee or tenant, if requested by the lessee or tenant. The parties shall mutually agree on the arrangements for the time and manner of the CASp inspection, the payment of the fee for the CASp inspection, and the cost of making any repairs necessary to correct violations of construction-related accessibility standards within the premises." In furtherance of and in connection with such notice: (i) Tenant, having read such notice and understanding Tenant's right to request and obtain a CASp inspection and with advice of counsel, hereby elects not to obtain such CASp inspection and forever waives its rights to obtain a CASp inspection with respect to the Premises, the Building and/or the Project to the extent permitted by applicable laws now or hereafter in effect; and (ii) if the waiver set forth in clause (i) hereinabove is not enforceable pursuant to applicable laws now or hereafter in effect, then Landlord and Tenant hereby agree as follows (which constitute the mutual agreement of the parties as to the matters described in the last sentence of the foregoing notice): (A) Tenant shall have the one-time right to request for and obtain a CASp inspection, which request must be made, if at all, in a written notice delivered by Tenant to Landlord on or before the Sixth Amendment Extended Term Commencement Date; (B) any CASp inspection timely requested by Tenant shall be conducted (1) between the hours of 9:00 a.m. and 5:00 p.m. on any business day, (2) only after ten (10) days' prior written notice to Landlord of the date of such CASp inspection, (3) in a professional manner by a CASp designated by Landlord and without any testing that would damage the Premises, the Building, or the Project in any way, (4) in accordance with all of the provisions of the Lease applicable to Tenant contracts for construction, and (5) at Tenant's sole cost and expense, including, without limitation, Tenant's payment of the fee for such CASp inspection, the fee for any reports and/or certificates prepared by the CASp in connection with such CASp inspection (collectively, the "CASp Reports") and all other costs and expenses in connection therewith; (C) Landlord shall be an express third party beneficiary of Tenant's contract with the CASp, and any CASp Reports shall be addressed to both Landlord and Tenant; (D) Tenant shall deliver a copy of any CASp Reports to Landlord within two (2) business days after Tenant's receipt thereof; (E) any information generated by the CASp inspection and/or contained in the CASp Reports shall not be disclosed by Tenant to anyone other than (I) contractors, subcontractors and/or consultants of Tenant, in each instance who have a need to know such information and who agree in writing not to further disclose such information, or (II) any governmental entity, agency or other person, in each instance to whom disclosure is required by law or by regulatory or judicial process; (F) Tenant, at its sole cost and expense, shall be responsible for making any improvements, alterations, modifications and/or repairs to or within the Premises to correct violations of construction-related accessibility standards, including, without limitation, any violations disclosed by such CASp inspection; and (G) if such CASp inspection identifies any improvements, alterations, modifications and/or repairs necessary to correct violations of construction-related accessibility standards relating to those items of the Building and/or the Project located outside the Premises that are Landlord's obligation to repair as set forth in the Lease, then Landlord shall perform such improvements, alterations, modifications and/or repairs as and to the extent required by applicable laws to correct such violations, and Tenant shall reimburse Landlord for the cost of such improvements, alterations, modifications and/or repairs within ten (10) business days after Tenant's receipt of an invoice therefor from Landlord.

7. Brokers. Landlord and Tenant each hereby represents and warrants to the other that it has had no dealings with any real estate broker or agent in connection with the negotiation of


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this Amendment, except for CBRE, Inc., representing Landlord, and Colliers International, representing Tenant (collectively, the "Brokers"), and that it knows of no other real estate broker or agent who is entitled to a commission in connection with this Amendment. Each party agrees to indemnify and defend the other party against and hold the other party harmless from any and all claims, demands, losses, liabilities, lawsuits, judgments, and costs and expenses (including, without limitation, reasonable attorneys' fees) with respect to any leasing commission or equivalent compensation alleged to be owing on account of any breach of the foregoing representation and warranty by the indemnifying party in connection with this Amendment.

8. Authority. If Tenant is a corporation, trust, limited liability company or partnership, each individual executing this Amendment on behalf of Tenant hereby represents and warrants that Tenant is a duly formed and existing entity qualified to do business in California and that Tenant has full right and authority to execute and deliver this Amendment and that each person signing on behalf of Tenant is authorized to do so. In such event, Tenant shall, within ten (10) days after Landlord's written request, deliver to Landlord satisfactory evidence of such authority, and, upon written request by Landlord, Tenant shall also deliver to Landlord satisfactory evidence of: (i) good standing in Tenant's state of formation; and (ii) qualification to do business in California.

9. Counterparts. This Amendment may be executed in any number of counterparts, which may be delivered electronically, via facsimile or by other means. Each party may rely upon signatures delivered electronically or via facsimile as if such signatures were originals. Each counterpart of this Amendment shall be deemed to be an original, and all such counterparts (including those delivered electronically or via facsimile), when taken together, shall be deemed to constitute one and the same instrument.

10. No Options. Notwithstanding anything to the contrary contained in the Lease, as hereby amended, Tenant hereby acknowledges and agrees that except as otherwise expressly set forth above in this Amendment: (i) Tenant has no (A) options to extend or renew the Lease, (B) early termination options, (C) options or rights to expand the Premises or to lease additional space in the real property of which the Premises are a part, (D) rights of first offer and/or rights of first refusal to lease any space in the real property of which the Premises are a part, and (E) options or preferential rights to purchase all or any portion of the Premises or the real property of which the Premises are a part nor any other rights or interests with respect to the Premises or the real property of which the Premises are a part, other than as "Tenant" under the Lease; and (ii) Tenant is not entitled to any improvement allowance, free or abated rent or any other concessions under the Lease.

11. No Further Modification. Except as set forth in this Amendment, all of the terms and provisions of the Lease are hereby ratified and confirmed and shall remain unmodified and in full force and effect. In the event of any conflict between the terms and conditions of the Lease and the terms and conditions of this Amendment, the terms and conditions of this Amendment shall prevail.

[SIGNATURES CONTAINED ON THE FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties have caused this Amendment to be duly executed by their duly authorized representatives as of the date first above written.

"LANDLORD":

GOOGLE LLC,
a Delaware limited liability company



By: [Signature]

Name: David Radcliffe

Title: Authorized Signatory

"TENANT":

QUICKLOGIC CORPORATION,
a Delaware corporation

By: [Signature]

Name: Sue CHUNG

Title: CFO

By: [Signature]

Name: Brian L. Fauth

Title: CEO

Subsidiaries of QuickLogic Corporation

| Name | Jurisdiction |
|---------------------------------------|--------------|
| QuickLogic International, Inc. | Delaware |
| QuickLogic Kabushiki Kaisha | Japan |
| QuickLogic (India) Private Limited | India |
| QuickLogic (Shanghai) Trading Limited | China |

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

QuickLogic Corporation
Sunnyvale, California

We consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-34898, 333-34900, 333-34902, 333-76022, 333-123515, 333-159498, and 333-208060), and Form S-3 (No. 333-215030) of our report dated March 9, 2018, relating to the consolidated financial statements of QuickLogic Corporation, and the effectiveness of internal control over financial reporting of QuickLogic Corporation, appearing in this Annual Report on Form 10-K for the year ended December 31, 2017.

/s/ Moss Adams LLP

San Francisco, California

March 9, 2018

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

QuickLogic Corporation
Sunnyvale, California

We hereby consent to the incorporation by reference in the Registration Statements on Form S3 (Nos. 333-215030) and Form S-8 (Nos. 333-159498, 333-123515, 333-76022, 333-34898, 333-34900, 333-34902 and 333-208060) of QuickLogic Corporation of our report dated March 18, 2016, relating to the consolidated financial statements and financial statement schedule, for the year ended January 3, 2016, which appears in this Form 10-K.

/s/ BDO USA, LLP
San Jose, California
March 9, 2018

CERTIFICATIONS

I, Brian C. Faith, certify that:

1. I have reviewed this annual report on Form 10-K of QuickLogic Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 9, 2018

/s/ Brian C. Faith

Brian C. Faith

President and Chief Executive Officer

I, Suping (Sue) Cheung, certify that:

1. I have reviewed this annual report on Form 10-K of QuickLogic Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 9, 2018

/s/ Suping (Sue) Cheung

Suping (Sue) Cheung

Vice President, Finance and Chief Financial Officer

**CERTIFICATION OF CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER
PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

I, Brian C. Faith, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Annual Report of QuickLogic Corporation on Form 10-K for the fiscal year ended December 31, 2017 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Annual Report on Form 10-K fairly presents in all material respects the financial condition and results of operations of QuickLogic Corporation.

By: /s/ Brian C. Faith
Date: March 9, 2018
Name: Brian C. Faith
Title: *President and Chief Executive Officer*

I, Suping (Sue) Cheung, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Annual Report of QuickLogic Corporation on Form 10-K for the fiscal year ended December 31, 2017, fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Annual Report on Form 10-K fairly presents in all material respects the financial condition and results of operations of QuickLogic Corporation.

By: /s/ Suping (Sue) Cheung
Date: March 9, 2018
Name: Suping (Sue) Cheung
Title: *Vice President, Finance and Chief Financial Officer*

