MoSys, Inc. Form S-1/A				
January 25, 2018 <u>Table of Contents</u> As filed with the Securities and Exchange Commission on January 25, 2018				
Registration No. 333-222417				
UNITED STATES				
SECURITIES AND EXCHANGE COMMISSION				
WASHINGTON, D.C. 20549				
AMENDMENT NO. 1				
ТО				
FORM S-1				
REGISTRATION STATEMENT				
UNDER				
THE SECURITIES ACT OF 1933				
MOSYS, INC.				
(Exact name of registrant as specified in its	s charter)			
Delaware	3674	77-0291941		
(State or other jurisdiction of	(Primary Standard	(I.R.S. Employer Identification No.)		

incorporation or organization) Industrial Classification

Code Number)

2309 Bering Drive
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(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)
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Approximate date of commencement of proposed sale to the public:
From time to time after this registration statement is declared effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

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If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

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

(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.

CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered

Amount Proposed maximum Proposed maximum Amount of To be offering price aggregate registration Registered per share (1) offering price fee(2) 662,500 \$2.35 \$1,556,875 193.83

Common Stock, par value \$0.001 per share, underlying common stock purchase warrants

- (1) Calculated pursuant to Rule 457(c) and (h)(1) of the regulations under the Securities Act of 1933, as amended (the "Securities Act") based on the price at which the warrants may be exercised.
- (2) Calculated pursuant to Rule 457(o) of the regulations under the Securities Act of 1933.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until the registration statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

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The information in this prospectus is not complete and may be changed. The selling stockholders may not sell these securities pursuant to this prospectus until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and is not soliciting offers to buy these securities in any jurisdiction where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED JANUARY 25, 2018

PROSPECTUS

662,500 Shares of Common Stock

Issuable upon Exercise of Outstanding Warrants

This prospectus relates to the resale, from time to time, by the selling stockholders identified in this prospectus under the caption "Selling Stockholders," of up to 662,500 shares of our common stock, par value \$0.001 per share, issuable upon exercise of outstanding common stock purchase warrants issued in a private placement transaction on July 6, 2017. We are not selling any shares of common stock under this prospectus and will not receive any proceeds from the sale of shares of common stock by the selling stockholders. We will receive proceeds from the cash exercise of the warrants, which, if exercised in cash with respect to all of the 662,500 shares of common stock, would result in gross proceeds of approximately \$1,556,875 to us before commissions and expenses. The selling stockholders will bear all commissions and discounts, if any, attributable to the resale of the shares.

The selling stockholders may sell the shares of our common stock offered by this prospectus from time to time on terms to be determined at the time of sale through ordinary brokerage transactions or through any other means described in this prospectus under the caption "Plan of Distribution." The shares of common stock may be sold at fixed prices, at market prices prevailing at the time of sale, at prices related to prevailing market price or at negotiated prices.

Our common stock is listed on The NASDAQ Capital Market under the symbol "MOSY." On January 24, 2018, the last reported closing sale price of our common stock on The NASDAQ Capital Market was \$1.36 per share.

INVESTING IN OUR SECURITIES INVOLVES RISKS.

SEE "RISK FACTORS" ON PAGE 6.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is January , 2018.

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In this prospectus, "MoSys," "we," "us," and "our" refer to MoSys, Inc. and its subsidiaries.

You should rely only on information contained or incorporated by reference in this prospectus. We have not authorized any person to provide you with information that differs from what is contained or incorporated by reference in this prospectus. If any person does provide you with information that differs from what is contained or incorporated by reference in this prospectus, you should not rely on it. This prospectus is not an offer to sell or the solicitation of an offer to buy any securities other than the securities to which it relates, or an offer of solicitation in any jurisdiction where offers or sales are not permitted. The information contained in this prospectus is accurate only as of the date of this prospectus, even though this prospectus may be delivered or shares may be sold under this prospectus on a later date.

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ABOUT THIS PROSPECTUS

This prospectus relates to the resale by the selling stockholders identified in this prospectus under the caption "Selling Stockholders," from time to time, of up to 662,500 shares of our comment stock, par value \$0.001 per share, issuable upon exercise of outstanding common stock purchase warrants, or the warrants, issued in a private placement transaction on July 6, 2017. On January 6, 2018, 662,500 shares of common stock became exercisable by the selling stockholders. We are not selling any shares of common stock under this prospectus and will not receive any proceeds from the sale of shares of common stock by the selling stockholders.

This prospectus is part of a registration statement on Form S 1 that we filed with the Securities and Exchange Commission, or SEC. It omits some of the information contained in the registration statement and reference is made to the registration statement, as well as other documents we have filed with the SEC, for further information with regard to us and the securities being offered by the selling stockholders. Any statement contained in the prospectus concerning the provisions of any document filed as an exhibit to the registration statement or otherwise filed with the SEC is not necessarily complete, and in each instance, reference is made to the copy of the document filed.

You should read this prospectus, any documents that we incorporate by reference in this prospectus and the registration statement, and the additional information described below under "Where You Can Find Additional Information" and "Information Incorporated by Reference" before making an investment decision.

FORWARD-LOOKING STATEMENTS

Some of the statements in this prospectus constitute forward-looking statements. These statements involve known and unknown risks, uncertainties, and other factors that may cause our or our industry's actual results, levels of activity, performance, or achievements to be materially different from any future results, levels of activity, performance, or achievements expressed or implied by such forward-looking statements. These factors include, among others, those incorporated by reference under "Risk Factors" below.

In some cases, you can identify forward-looking statements by terms such as "may," "will," "should," "expects," "plans," "anticipates," "believes," "estimates," "predicts," "potential," or "continue" or similar terms.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance, or achievements. Our actual results could differ materially from those expressed or implied by these forward-looking statements as a result of various factors, including the risk factors incorporated by reference under the heading "Risk Factors" below and a variety of other factors, including, without limitation, statements about our future business operations and results, the market for our technology, our strategy and competition.

Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of these statements. We undertake no obligation to update or revise any of the forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. In light of these risks, uncertainties and assumptions, the forward-looking events discussed or incorporated by reference in this prospectus may not occur.

PROSPECTUS SUMMARY

The following summary highlights information contained elsewhere or incorporated by reference in this prospectus. This summary does not contain all of the information you should consider before investing in the securities. Before making an investment decision, you should read the entire prospectus carefully, including the matters discussed under the heading "Risk Factors" in this prospectus.

Our Company

We are a fabless semiconductor company focused on the development and sale of integrated circuits, or ICs, for the high-speed networking, communications, storage and data center markets. Our solutions deliver time-to-market, performance, power, area and economic benefits for system original equipment manufacturers, or OEMs. Our principal product line and source of substantially all of our revenue is the Bandwidth Engine® product family. Bandwidth Engine ICs combine our proprietary 1T-SRAM® high-density embedded memory, integrated macro functions and high-speed serial interface, or SerDes, I/O, with our intelligent access technology and a highly efficient interface protocol. Historically, our primary business was the design, development, marketing, sale and support of differentiated intellectual property, or IP, including embedded memory and high-speed parallel and SerDes I/O used in advanced systems-on-chips, or SoCs.

Our future success and ability to achieve and maintain profitability are dependent on the marketing and sales of our Bandwidth Engine IC products into networking, communications and other markets requiring high-bandwidth memory access.

We incurred a net loss of \$10.1 million for the nine month period ended September 30, 2017 and had an accumulated deficit of \$224.2 million as of September 30, 2017. In addition, we incurred net losses of approximately \$32.0 million and \$31.5 million for the years ended December 31, 2016 and 2015, respectively. These and prior year losses have resulted in significant negative cash flows for almost a decade and have required us to raise substantial amounts of additional capital during this period. To date, we have primarily financed our operations through multiple offerings of common stock to investors and affiliates, as well as asset sale transactions.

In March 2016, we entered into a 10% Senior Secured Convertible Note Purchase Agreement with the purchasers of \$8.0 million principal amount of 10% Senior Secured Convertible Notes due August 15, 2018 (the "Notes"), at par, in a private placement transaction. The Notes bear interest at the annual rate of 10%. Accrued interest is payable semi-annually in cash or in-kind through the issuance of identical new Notes, or with a combination of the two, at our option. Since issuance of the Notes, we have made the interest payments in-kind through the issuance of additional notes totaling approximately \$1.2 million. Further, the Notes restrict our ability to incur any indebtedness for borrowed money, unless such indebtedness by its terms is expressly subordinated to the Notes in right of payment and to the security interest of the Note holder(s) in respect to the priority and enforcement of any security interest in our property securing such new debt; provided that the Note holder(s) security interest and cash payment rights under the Notes shall be subordinate to a maximum of \$5 million of indebtedness for a secured accounts receivable line of credit facility under certain conditions.

We expect to continue to incur operating losses for the foreseeable future as we secure customers for and continue to invest in the commercialization of our Bandwidth Engine IC products. We will need to increase revenues substantially beyond levels that we have attained in the past in order to generate sustainable operating profit and sufficient cash flows to continue doing business without raising additional capital from time to time. As a result of our expected operating losses and cash burn for the foreseeable future, recurring losses from operations, and the need to repay the Notes and accrued interest in 2018, if we are unable to raise sufficient capital through additional debt or equity arrangements, there will be uncertainty regarding our ability to maintain liquidity sufficient to operate our business

effectively, which raises substantial doubt as to our ability to continue as a going concern. There can be no assurance that such additional capital, whether in the form of debt or equity financing, will be sufficient or available and, if available, that such capital will be offered on terms and conditions acceptable to us. We are primarily focusing our resources on producing and selling our existing products, and have substantially curtailed new product development. If we are unsuccessful in these efforts, we will need to implement additional cost reduction strategies, which could further affect our near- and long-term business plan. These efforts may include, but are not limited to, further reducing headcount and curtailing business activities.

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The address and phone number of our principal executive offices are MoSys, Inc., 2309 Bering Drive, San Jose, CA 95131, (408) 418 7500.

Our Strategy

Our primary business objective is to be an IP-rich fabless semiconductor company offering ICs that deliver unparalleled bandwidth performance for next generation data center, networking and communications systems.

Our Business

Bandwidth Engine

The Bandwidth Engine is a memory-dominated IC that has been designed to be a high-performance companion IC to packet processors. While the Bandwidth Engine primarily functions as a memory device with a high-performance and high-efficiency interface, it also can accelerate certain processing operations by serving as a co-processor element. Our Bandwidth Engine ICs combine: (1) our proprietary high-density, high-speed, low latency embedded memory, (2) our SerDes, (3) an open-standard interface protocol and (4) intelligent access technology. We believe an IC combining our 1T-SRAM memory and serial I/O with logic and other intelligence functions provides a system-level solution and significantly improves overall system performance at lower cost, size and power consumption. Our Bandwidth Engine ICs can provide up to and over 4.5 billion memory accesses per second, which is more than twice the performance of current memory-based solutions. They also can enable system designers to significantly narrow the gap between processor and memory IC performance. Customers that design Bandwidth Engine ICs onto the line cards in their networking systems will re-architect their systems at the line-card level and use our product to replace traditional memory solutions. When compared with existing commercially available solutions, our Bandwidth Engine ICs may:

- · provide up to four times the performance;
- · reduce power by approximately 50%;
- · reduce cost by greater than 50%; and
- · result in a dramatic reduction in IC pin counts on the line card.

Our first generation Bandwidth Engine IC, or BE1, products contain 576 megabytes, or MB, of memory and use a serial I/O with up to 16 lanes operating at up to 10.3 Gbps per lane. Variations of the BE1 can have up to two interface ports, with up to eight serial receiver and eight serial transmitter lanes per port for a total of 16 lanes of 10.3 Gbps SerDes interface. These ICs include an arithmetic logic unit, which can perform read-modify-write operations. We have been shipping our BE1 products since 2012. We have notified customers, however, that we intend to discontinue our BE1 products. We expect to complete final shipments of our BE1 products by the end of 2018.

Our second generation Bandwidth Engine IC, BE2, products contain 576 MB of memory and use serial I/O with up to 16 lanes operating at up to 15 Gbps per lane. In addition to a speed improvement of up to 50%, the architecture enables several family member parts with added specialized features. To date, we have announced three unique devices in this product family:

- · MSR620 with burst features optimized for oversubscription buffer applications;
- · MSR720 with a write cache and memory coherency capability that allows for deterministic look-ups optimized for state and queue type applications; and
- · MSR820 with increased intelligence for lookup, metering and statistics applications by adding dual counters, atomic and extensive metering functions.

We have been shipping our BE2 products since 2013. These products represented the majority of our revenues in 2016. We expect our BE2 products to represent the majority of our revenues for the foreseeable future.

Our third generation Bandwidth Engine IC, or BE3, products contain 1152 MB of memory and use serial I/O with up to 16 lanes operating at up to 30 Gbps per lane. BE3 targets support for packet-processing applications with up to five billion memory single word accesses per second, as well as burst mode to enable full duplex buffering up to 400Gbps for ingress, egress and oversubscription applications. To date, we have announced three unique devices in this product family:

- · MSR630 enables high rate lookup or high-performance buffer capabilities; and
- · MSR830 offers additional offload capabilities for functions such as statistics and metering to increase performance and add features for next-generation networking and communications equipment; and
- MSRZ30 builds upon the capabilities and performance of the MSR830, with data rates, interface protocol and data structures that are optimized for the EZchip NPS 400 network processing unit, or NPU, and can increase memory bandwidth by up to 50%.

We commenced sampling of our BE3 products in 2016, and expect to qualify these products for mass production in the first half of 2018. We do not have a current estimate of the timing for significant revenues from our BE3 products.

IP Licensing and Distribution

Historically, we offered our memory and I/O technologies on a worldwide basis to semiconductor companies, electronic product manufacturers, foundries, intellectual property companies and design companies through product development, technology licensing and joint marketing relationships. We licensed our IP technology to semiconductor companies who incorporated our technology into ICs that they sold to their customers. As a result of the change in our corporate strategy, since early 2012, our IP licensing activities have been limited, and we expect this to continue. However, for the nine months ended September 30, 2017 and the year ended December 31, 2016, approximately 15% and 24%, respectively, of our total revenues were generated from licensing and royalties related to our existing licensing arrangements, as we continued to perform and deliver under outstanding license agreements and collect royalties from 1T- SRAM licensees. To date, we have completed our performance obligations under our existing licensing agreements, and we expect licensing and royalty revenues to be minimal in future years.

Description of the Private Placement of Warrants

On June 30, 2017, we entered into a Securities Purchase Agreement (the "Purchase Agreement"), with participating investors, who are the selling stockholders identified in this prospectus under the caption "Selling Stockholders," pursuant to which we sold and issued, in a registered direct offering, an aggregate of 1,325,000 shares of our common stock at an offering price of \$1.70 per share (the "Shares") on July 6, 2017. In addition, pursuant to the Purchase Agreement, we agreed to sell and issue a warrant to purchase one half of a share of the common stock for each share purchased for cash in the offering pursuant to Common Stock Purchase Warrants, or the warrants, to purchase 662,500 shares of our common stock.

The warrants have an exercise price of \$2.35 per share of our common stock, may be exercised from time to time beginning January 6, 2018 (the "Initial Exercise Date"), and at any time thereafter up to the date that is five years from the date when first exercisable, at which time any unexercised warrants will expire and cease to be exercisable. The warrants will be exercisable, at the option of each holder, in whole or in part by delivering to us a duly executed exercise notice and by payment in full in immediately available funds for the number of shares of common stock purchased upon such exercise. If a registration statement registering the issuance of the shares of common stock underlying the warrants under the Securities Act is not then effective or available, the holder may exercise the warrant through a cashless exercise, in whole or in part, in which case the holder would receive upon such exercise the net

number of shares of common stock determined according to the formula set forth in the warrant. No fractional shares of common stock will be issued in connection with the exercise of a warrant. In lieu of fractional shares, we will either pay the holder an amount in cash equal to the fractional amount multiplied by the exercise price or round up to the next whole share.

A holder will not have the right to exercise any portion of the warrant if the holder (together with its affiliates) would beneficially own in excess of 4.99% (or on election of the holder, 9.99%) of the number of shares of our stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the warrants. However, any holder may increase or decrease such percentage to any other percentage not in excess of 9.99% upon notice to us, provided that any increase in such percentage shall not be effective until 61 days after such notice to us.

The initial exercise price per share of common stock purchasable upon exercise of the warrants is \$2.35 per share of common stock. The exercise price is subject to appropriate adjustment in the event of certain stock dividends and distributions, stock splits, stock combinations, reclassifications or similar events affecting our common stock.

In the event of a fundamental transaction, as described in the warrants, which generally includes any reorganization, recapitalization or reclassification of our common stock, the sale, transfer or other disposition of all or substantially all of our properties or assets, our consolidation or merger with or into another person, the holders of the warrants will be entitled to receive upon exercise of the warrants the kind and amount of securities, cash or other property that the holders would have received had they exercised the warrants immediately prior to such fundamental transaction.

We filed the registration statement on Form S 1, of which this prospectus is a part, to fulfill our obligation under the Purchase Agreement to provide for the resale by these investors of up to 662,500 shares of common stock issuable upon exercise of the warrants. We agreed to use commercially reasonable efforts to cause such registration statement to become effective 181 days following the date of issuance of the warrants (July 6, 2017) and to keep such registration statement effective at all times until (a) the warrant shares are sold under such registration statement or pursuant to Rule 144 under the Securities Act, (b) the warrant shares may be sold without volume or manner-of-sale restrictions pursuant to Rule 144 under the Securities Act, and (c) the five-year anniversary of the Initial Exercise Date, whichever is the earliest to occur.

The Offering

Shares of common stock offered by the selling stockholders:

662,500 shares of common stock issuable upon exercise of the outstanding common stock purchase warrants.

Shares of common stock outstanding before this offering:

8,067,635

Shares of common stock outstanding after completion of this offering, assuming full exercise of the common stock purchase warrants: 8,730,135

Terms of the Offering:

The selling stockholders, including their transferees, donees, pledgees, assignees and successors-in-interest, may sell, transfer or otherwise dispose of any or all of the shares of common stock offered by this prospectus from time to time on The NASDAQ Capital Market or any other stock exchange, market or trading facility on which the shares are traded or in private transactions. The shares of common stock may be sold at fixed prices, at market prices prevailing at the time of sale, at prices related to

prevailing market price or at negotiated prices.

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Use of Proceeds:

All proceeds from the sale of shares of common stock issuable upon exercise of the outstanding common stock purchase warrants will be for the account of the selling stockholders. We will not receive any proceeds from the sale of common stock offered pursuant to this prospectus. However, we will receive proceeds upon any cash exercise of the common stock purchase warrants. See the section titled "Use of Proceeds" in this prospectus.

NASDAQ Capital Market symbol: **MOSY**

Trading: Our shares of common stock currently trade on The NASDAQ Capital Market. There is no

established trading market for the common stock purchase warrants and we do not intend to list the

common stock purchase warrants on any exchange or other trading system.

Risk Factors: Investing in our securities involves a high degree of risk and purchasers of our securities may lose

their entire investment. See "Risk Factors" below and the other information included elsewhere in this prospectus for a discussion of factors you should carefully consider before deciding to invest in our

securities.

The number of shares of our common stock shown above to be outstanding immediately before and after this offering is based on 8,067,635 shares outstanding as of December 31, 2017, and excludes, as of such date:

- 1,021,102 shares of common stock issuable upon conversion of the 10% Subordinate Senior Secured Convertible Notes due August 15, 2018;
- · 72,759 shares of common stock issuable upon exercise of outstanding exercisable stock options with a weighted average exercise price of approximately \$10.55 per share;
- · 234,685 shares of common stock issuable upon exercise of outstanding stock options that are not exercisable;
- · 376,490 shares of common stock issuable upon vesting of restricted stock units;
- · 231,185 shares of common stock available for future issuance under our equity incentive plans;
- · 147,024 shares of common stock available for sale under our employee stock purchase plan; and
- · 662,500 shares of common stock issuable upon exercise of the warrants.

RISK FACTORS

An investment in our common stock is risky. Prior to making a decision about investing in our common stock, you should carefully consider the specific risks discussed in this prospectus, any applicable prospectus supplement, or otherwise incorporated by reference in this prospectus. The risks and uncertainties described in our SEC filings are not the only ones facing us. Additional risks and uncertainties not presently known to us, or that we currently see as immaterial, may also harm our business. If any of the risks or uncertainties described in the prospectus supplement or our SEC filings or any such additional risks and uncertainties actually occur, our business, results of operations, cash flows and financial condition could be materially and adversely affected. In that case, the trading price of our common stock could decline, and you might lose part or all of your investment.

We have a history of losses and we will need to raise additional capital in the future and our inability to do so may adversely impact our ability to continue as a going concern.

Our consolidated financial statements have been prepared on a going concern basis that assumes we will be able to realize our assets and discharge our liabilities in the normal course of business for the foreseeable future. We incurred a net loss of \$10.1 million for the nine-month period ended September 30, 2017, and had an accumulated deficit of \$224.2 million as of September 30, 2017. We recorded an operating loss of approximately \$31.4 million for the year ended December 31, 2016 and we ended the period with an accumulated deficit of approximately \$214.0 million. In addition, we recorded operating losses of approximately \$31.5 million and \$32.7 million for the years ended December 31, 2015 and 2014, respectively. These losses have resulted in significant negative cash flows for more almost a decade and have required us to raise substantial amounts of additional capital during this period. We expect to continue to incur operating losses for the foreseeable future as we secure customers for and continue to invest in the commercialization of our IC products. Due to the strong commitment of our resources to research and development and expansion of our product offerings to customers, we will need to increase revenues substantially beyond levels that we have attained in the past in order to generate sustainable operating profit and sufficient cash flows to continue doing business without raising additional capital from time to time. Given our history of fluctuating revenues and operating losses, the expected reduction in royalty and licensing revenues and challenges we face in securing customers for our IC products, we cannot be certain that we will be able to achieve profitability on either a quarterly or annual basis in the future. The possibility that we will not be able to meet our obligations as and when they become due over the next twelve months raises substantial doubt about our ability to continue as a going concern.

Accordingly, we have been pursuing, and will continue to pursue, the implementation of certain cost reduction strategies. Additionally, we are seeking additional financing and evaluating financing alternatives in order to meet our cash requirements for the next 12 months. We may not be able to obtain additional financing, as needed, on acceptable terms, or at all, which may require us to further reduce our operating costs and other expenditures, including additional reductions of personnel and capital expenditures. Alternatively, or in addition to such potential measures, we may elect to implement other cost reduction actions as we may determine are necessary and in our best interests, including the possible sale or cessation of certain of our business segments. Any such actions undertaken might limit our opportunities to realize plans for revenue growth, and we might not be able to reduce our costs in amounts sufficient to achieve break-even or profitable operations. If we issue additional equity or convertible debt securities to raise funds, the ownership percentage of our existing stockholders would be reduced and they may experience significant dilution. New investors may demand rights, preferences or privileges senior to those of existing holders of our common stock. If we are not successful in these actions, we may be forced to cease operations. See Management's Discussion and Analysis of Financial Condition, "Results of Operations, Liquidity and Capital Resources, and Going

Concern-Working Capital."

Our auditor has expressed substantial doubt about our ability to continue as a going concern and, absent additional financing, we may be unable to remain a going concern.

In light of our recurring losses, accumulated deficit and negative cash flow, as described in the notes to our consolidated financial statements, the report of our independent registered public accounting firm on our financial statements for the year ended December 31, 2016 contains an explanatory paragraph raising substantial doubt about our ability to continue as a going concern. Our consolidated financial statements do not include any adjustments that may be necessary in the event we are unable to continue as a going concern. If we do not raise enough additional capital sufficient

to allow for the removal of this going concern uncertainty, we will need to significantly modify our operational plans for us to continue as a going concern.

Our failure to raise additional capital or generate the significant capital necessary to expand our operations and invest in the new products could reduce our ability to compete and could harm our business.

We intend to continue spending substantial amounts to grow our business. In March 2016, we issued \$8 million aggregate principal amount of 10% Subordinate Senior Secured Convertible Notes due August 15, 2018 (the Notes). The Note principal is convertible into our common stock, as well as the interest on the Notes, as we have the option of paying the interest in-kind by converting such interest into additional note principal. In addition, the Notes also include limited anti-dilution protection, such that the conversion price will be reset to a lower conversion price in some situations. As a result, our stockholders may experience significant dilution of these Notes and any additional paid-in-kind principal are converted into our common stock and the conversion price is reset. We will still need to obtain additional financing to pursue our business strategy, develop new products, respond to competition and market opportunities and acquire complementary businesses or technologies. There can be no assurance that such additional capital, whether in the form of debt or equity financing, will be sufficient or available and, if available, that such capital will be offered on terms and conditions acceptable to us. We are exploring various alternatives, and expect to implement cost reductions to successfully sustain the business. If we are unsuccessful in these efforts, we will need to implement significant cost reduction strategies that could affect our near- and long-term business plan. These efforts may include, but are not limited to reducing headcount and curtailing business activities, especially around new product development.

If we were to raise additional capital through sales of our equity securities, our stockholders would suffer dilution of their equity ownership. If we engage in a subsequent debt financing, we may be required to accept terms that restrict our ability to incur additional indebtedness, prohibit us from paying dividends, repurchasing our stock or making investments, and force us to maintain specified liquidity or other ratios, any of which could harm our business, operating results and financial condition. If we need additional capital and cannot raise it on acceptable terms, we may not be able to, among other things:

- · Develop or enhance our products;
- · Continue to expand our product development and sales and marketing organizations;
- · Acquire complementary technologies, products or businesses;
- · Expand operations, in the United States or internationally;
- · Hire, train and retain employees; or
- · Respond to competitive pressures or unanticipated working capital requirements.

Our failure to do any of these things could seriously harm our ability to execute our business strategy and may force us to curtail our research and development plans or existing operations.

We currently lack the funds to repay the convertible notes due in August 2018.

In March 2016, we entered into a 10% Senior Secured Convertible Note Purchase Agreement with the purchasers of the Notes. Accrued interest is payable semi-annually in cash or in kind through the issuance of identical new Notes, or with a combination of the two, at our option. Through August 2017, we have made the interest payments in-kind through the issuance of additional notes totaling approximately \$1.2 million. The notes are secured by substantially all of our assets. If we fail to pay the Notes, including accrued interest, in full when due, the holders of the Notes, acting through their agent, will be entitled to pursue all of their remedies as secured creditors, including taking possession of the collateral securing the Notes and effecting a private sale of some or all of our assets securing the Notes. After the holders of the

Notes take such actions, we may not have enough assets to make payments owed to other creditors, to continue operating our business, or distribute any funds to stockholders.

Our success depends upon the networking and communications systems markets' acceptance of our ICs.

The future prospects of our business depend on the adoption and acceptance by our target markets, networking communications and data center equipment providers, of our Bandwidth Engine and LineSpeed ICs. In 2011, we began focusing our engineering, marketing and sales efforts on our IC products and de-emphasizing our technology licensing activities, which historically have been our primary revenue source. Our prospective customers may be unwilling to adopt and design-in our ICs due to the uncertainties and risks surrounding designing a new IC into their systems and relying on a supplier that has almost no history of manufacturing such ICs. In addition, our Bandwidth Engine IC products require our customers and their other IC suppliers to implement our new and proprietary chip-to-chip communication protocol, GCI, which they may be unwilling to do. We have determined and negotiated prices with a few customers for our ICs and have gained only limited experience with the cost of making and selling these products. Thus, currently, we do not know whether we will be able to profitably make and sell these products. We are investing significant resources to develop our next generation IC products, but may not introduce these new products successfully or obtain significant revenue from them.

An important part of our strategy to gain market acceptance is to penetrate new markets by targeting market leaders to accept our IC solutions. This strategy is designed to encourage other participants in those markets to follow these leaders in adopting our solutions. If a high-profile industry participant adopts our ICs for one or more of its products but fails to achieve success with those products, or is unable to successfully implement our ICs, other industry participants' perception of our solutions could be harmed. Any such event could reduce the amount of future sales of our IC products.

Our future revenue depends on our winning designs with our customers, and those customers designing our solutions into their product offerings and successfully selling and marketing such products. If we do not continue to win designs in the short term, our product revenue in the following years will not grow.

We sell our ICs to original equipment manufacturer (OEM) customers that include our ICs in their products. Our technology is generally incorporated into products at the design stage, which we refer to as a design win, and which we define as the point at which a customer has made a commitment to build a board against a fixed schematic for his system, and this board will utilize our ICs. As a result, our future revenue depends on our OEM customers designing our ICs into their products, and on those products being produced in volume and successfully commercialized. If we fail to convince our current or prospective customers to include our ICs in their products and fail to achieve a consistent number of design wins, our results of operations and business will be harmed. In addition, if a current or prospective customer designs a competitor's offering into its product, it becomes significantly more difficult for us to sell our IC solutions to that customer because changing suppliers involves significant cost, time, effort and risk for the OEM. Even if a customer designs one of our ICs into its product, we cannot be assured that the OEM's product will be commercially successful over time or at all or that we will receive or continue to receive any revenue from that customer. Furthermore, the customer product for which we obtain a design win may be canceled before the product enters production or is introduced into the market. Because of our extended sales cycle, our revenue in future years is highly dependent on design wins we are awarded today. Our lack of capital and uncertainty about our future technology roadmap also may limit our success in achieving additional design wins, as discussed under, "Our auditor has expressed substantial doubt about our ability to continue as a going concern, and, absent additional financing, we may be unable to remain a going concern," and "We may experience difficulties in transitioning to new wafer fabrication process technologies or in achieving higher levels of design integration, which may result in reduced manufacturing yields, delays in product deliveries and increased costs."

The design win process is generally a lengthy, expensive and competitive process, with no guarantee of revenue, and if we fail to generate sufficient revenue to offset our expenses, our business and operating results would suffer.

Achieving a design win is typically a lengthy, expensive and competitive process because our customers generally take a considerable amount of time to evaluate our ICs. In the markets we serve, the time from initial customer engagement to design win to production volume shipments can range from two to three years, though it may take longer for new customers or markets we intend to address. In order to win designs, we are required to both incur design and development

costs and dedicate substantial engineering resources in pursuit of a single customer opportunity. Even though we incur these costs, we may not prevail in the competitive selection process and, even if we do achieve a design win, we may never generate sufficient, or any, revenue to offset our development expenditures. Our customers have the option to decide whether or not to put our solutions into production after initially designing our products in the specification. The customer can make changes to its product after a design win has been awarded to us, which can have the effect of canceling a previous design win. The delays inherent in our protracted sales cycle increase the risk that a customer will decide to cancel, curtail, reduce or delay its product plans, causing us to lose anticipated revenue. In addition, any change, delay or cancellation of a customer's plans could harm our financial results, as we may have incurred significant expense while generating no revenue.

If our foundries do not achieve satisfactory yields or quality, our cost of goods sold will increase, our operating margins will decline, and our reputation and customer relationships could be harmed.

We depend not only on sufficient foundry manufacturing capacity and wafer prices, but also on good production yields (the number of good die per wafer) and timely wafer delivery to meet customer demand and maintain profit margins. The fabrication of our products is a complex and technically demanding process. Minor deviations in the manufacturing process can cause substantial decreases in yields, and in some cases, cause production to be suspended. Our foundry, Taiwan Semiconductor Manufacturing Company (TSMC), from time to time, experiences manufacturing defects and reduced manufacturing yields. Changes in manufacturing processes or the inadvertent use of defective or contaminated materials by our foundries could result in lower than anticipated manufacturing yields, which would harm our revenue or increase our costs. For example, recently, our foundry produced ICs and met its process specification range but did not meet our customer's specifications causing us to write off a portion of our production lot. Many of these problems are difficult to detect at an early stage of the manufacturing process and may be time consuming and expensive to correct. Poor yields from our foundry, or defects, integration issues or other performance problems in our ICs, could cause us significant customer relations and business reputation problems, harm our operating results and give rise to financial or other damages to our customers. Our customers might consequently seek damages from us for their losses. A product liability claim brought against us, even if unsuccessful, would likely be time consuming and costly to defend.

We may experience difficulties in transitioning to new wafer fabrication process technologies or in achieving higher levels of design integration, which may result in reduced manufacturing yields, delays in product deliveries and increased costs.

We aim to use the most advanced manufacturing process technology appropriate for our solutions that is available from TSMC. As a result, we periodically evaluate the benefits of migrating our solutions to other technologies in order to improve performance and reduce costs. These ongoing efforts require us from time to time to modify the manufacturing processes for our products and to redesign some products, which in turn may result in delays in product deliveries. We are dependent on TSMC to support the production of wafers for future versions of our ICs, as TSMC is our sole foundry. Such production may require changes to TSMC's existing process technology. If TSMC elects to not alter their process technology to support future versions of our ICs, we would need to identify a new foundry.

In addition, specifically with regard to our Bandwidth Engine products, our 1T-SRAM technology is not available at process nodes below 40 nanometers. To date, we have not developed any memory products below the 40 nanometer process node. To continue the product roadmap for our Bandwidth Engine and PSE products, we will need to identify a new foundry and/or no longer use our 1T-SRAM technology. We do not consider this to adversely affect our current product offerings, but we expect to face difficulties, delays and increased expense as we transition our products to new processes, and potentially to new foundries for future products. For example, we believe our next generation of products will need to be designed using a FinFET process, which will require us to incur significantly high development costs for mask tooling and computer-aided design software. We currently lack the funds to pay for such

development costs. Moreover, an inability to continue our product roadmap can adversely affect, and has in the past affected our efforts to win new customers, secure additional design wins and significantly grow our future revenues.

Because the manufacturing of integrated circuits is extremely complex, the process of qualifying a new foundry is a lengthy process and there can be no assurance that we will be able to find and qualify replacement suppliers without materially adversely affecting our business, financial condition, results of operations and prospects for future growth. We

cannot assure you that we will be able to maintain our relationship with our foundries or develop relationships with new foundries. If we or TSMC experience significant delays in transitioning to smaller geometries or fail to efficiently implement transitions, we could experience reduced manufacturing yields, delays in product deliveries and increased costs, any of which could harm our relationships with our customers and our operating results.

We may not achieve the anticipated benefits of becoming a fabless semiconductor company by developing and bringing to market the Bandwidth Engine and LineSpeed IC product lines.

In 2010, we expanded our business model to become a fabless semiconductor company through the development of a product line of memory ICs called the Bandwidth Engine. In March 2013, we announced a product line of SerDes ICs called LineSpeed. Our goal is to increase our total available market by creating high-performance ICs for networking communications and data center systems, using our proprietary technology and design expertise. This development effort has required that we add headcount and design resources, such as expensive software tools, which has increased our losses from and cash used in operations. We may not be successful in our development efforts to bring our ICs to market successfully nor be successful in selling ICs due to various risks and uncertainties, including, but not limited to:

- · Our lack of working capital;
- · customer acceptance;
- · adoption of the GCI protocol, without which our Bandwidth Engine products cannot function;
- · difficulties and delays in our product development, manufacturing, testing and marketing activities;
- · timeliness of new product introductions;
- the anticipated costs and technological risks of developing and bringing ICs to market;
- the willingness of our manufacturing partners to assist successfully with fabrication;
- · our ability to qualify our products for mass production and achieve wafer yield levels and the final test results necessary to be price competitive;
- the availability of quantities of ICs supplied by our manufacturing partners at a competitive cost;
- · our ability to generate the desired gross margin percentages and return on our product development investment;
- · competition from established IC suppliers;
- the adequacy of our intellectual property protection for our proprietary IC designs and technologies;
- · customer concerns over our financial condition and viability to be a long-term profitable supplier;
- · the vigor and growth of markets served by our current and prospective customers; and
- · our lack of recent experience as a fabless semiconductor company making and selling proprietary ICs.

If we experience significant delays in bringing our IC products to market or if customer adoption of our products is delayed, this could have a material adverse effect on our anticipated revenues in upcoming years due to the potential loss of design wins and future revenues. For example, we have experienced significant delays in bringing our third generation LineSpeed products to market, which has prevented us from achieving design wins and resulted in us introducing products after our competitors. We may continue to experience significant delays in the future.

Our main objective is the development and sale of our products to networking communications and data center systems providers and their subsystem and component vendors, and, if demand for these products does not grow, we may not achieve revenue growth and our strategic objectives.

We market and sell our ICs to networking communications and data center equipment providers and their subsystem and component vendors. We believe our future business and financial success depends on market acceptance and increasing sales of these products. In order to meet our growth and strategic objectives, networking infrastructure OEMs must incorporate our products into their systems, and the demand for their systems must grow as well. We cannot provide assurance that sales of our products to these OEMs will increase substantially in the future or that the demand for our customers' systems will increase. Our future revenues from these products may not increase in accordance with our growth and strategic objectives if instead our OEM customers modify their product designs, select products sold by our competitors or develop their own proprietary ICs. Moreover, demand for their products that incorporate our ICs may not grow or result in significant sales of such products due to factors affecting the customers and their business, such as industry downturns, declines in capital spending in the enterprise and carrier markets and unfavorable macroeconomic conditions. Thus, the future success of our business depends in large part on factors outside our control, and sales of our products may not meet our revenue growth and strategic objectives.

Our failure to continue to develop new products and enhance our products on a timely basis could diminish our ability to attract and retain customers.

The existing and potential markets for our products are characterized by ever-increasing performance requirements, evolving industry standards, rapid technological change and product obsolescence. These characteristics lead to frequent new product introductions and enhancements, shorter product life cycles and changes in industry demands. In order to attain and maintain a significant position in the market, we will need to continue to enhance and evolve our products and the underlying proprietary technologies in anticipation of these market trends.

Our future performance depends on a number of factors, including our ability to:

- · identify target markets and relevant emerging technological trends;
- · develop and maintain competitive technology by improving performance and adding innovative features that differentiate our products from alternative technologies;
- · enable the incorporation of our products into the customers' products on a timely basis and at competitive prices;
- · develop our products to be manufactured at smaller process geometries; and
- · respond effectively to new technological developments or new product introductions by others.

Our failure to develop future products that achieve market acceptance could harm our competitive position and impede our future growth.

Our ICs have a lengthy sales cycle, which makes it difficult to predict success in this market and the timing of future revenue.

Our ICs have a lengthy sales cycle, ranging from six to 24 months from the date of our initial proposal to a prospective customer until the date on which the customer confirms that it has designed our product into its system. As lengthy, or an even lengthier period, could ensue before we would know the volume of products that such customer will, or is likely to, order. A number of factors can contribute to the length of the sales cycle, including technical evaluations of our products by the customers, the design process required to integrate our products into the customers' products and the timing of the customers' new product announcements. In anticipation of product orders, we may incur substantial costs before the sales cycle is complete and before we receive any customer payments. As a result, in the event that a sale is not

completed or is cancelled or delayed, we may have incurred substantial expenses, making it more difficult for us to become profitable or otherwise negatively impacting our financial results. Furthermore, because of this lengthy sales cycle, the recording of revenues from our selling efforts may be substantially delayed, our ability to forecast our future revenue may be more limited and our revenue may fluctuate significantly from quarter to quarter. We cannot provide any assurances that our efforts to build a strong and profitable business based on the sale of ICs will succeed. If these efforts are not successful, in light of the substantial resources that we have invested, our future operating results and cash flows could be materially and adversely affected.

The semiconductor industry is cyclical in nature and subject to periodic downturns, which can negatively affect our revenue.

The semiconductor industry is cyclical and has experienced pronounced downturns for sustained periods of up to several years. To respond to any downturn, many semiconductor manufacturers and their customers will slow their research and development activities, cancel or delay new product developments, reduce their workforces and inventories and take a cautious approach to acquiring new equipment and technologies. As a result, our business has been in the past and could be adversely affected in the future by an industry downturn, which could negatively impact our future revenue and profitability. Also, the cyclical nature of the semiconductor industry may cause our operating results to fluctuate significantly from year-to-year, which may tend to increase the volatility of the price of our common stock.

We expect our licensing and royalty revenues to decrease compared with our historical results, and there is no guarantee revenues from our IC products will replace these lost revenues in the near future.

In 2011, we began to place greater emphasis on our IC business and re-deploy engineering, marketing and sales resources from IP to IC activities. We are no longer actively pursuing new license arrangements, and, as a result, our license and royalty revenues in 2016 declined when compared with prior years. We do not expect to generate sufficient revenues from our IC business to allow us to achieve profitability in 2017. In addition, the production volumes of the current royalty-bearing products shipped by our licensees are expected to decrease; therefore we expect our royalty revenue to decrease in 2017 and future periods. Historically, royalties have generated a 100% gross margin, and any decrease in royalties adversely affects our gross margin, operating results and cash flows.

Our revenue has been highly concentrated among a small number of licensees and customers, and our results of operations could be harmed if we lose a key revenue source and fail to replace it.

Our overall revenue has been highly concentrated, with a few customers accounting for a significant percentage of our total revenue. For the year ended December 31, 2016, our three largest customers represented 47%, 21% and 13% of total revenue, respectively. For the year ended December 31, 2015, our three largest customers represented 34%, 31% and 12% of total revenue, respectively. For the year ended December 31, 2014, our three largest customers represented 34%, 31% and 11% of total revenue, respectively. We expect that a relatively small number of customers will continue to account for a substantial portion of our revenue for the foreseeable future.

As a result of this revenue concentration, our results of operations could be adversely affected by the decision of a single key licensee or customer to cease using our technology or products or by a decline in the number of products that incorporate our technology that are sold by a single licensee or customer or by a small group of licensees or customers.

Our revenue concentration may also pose credit risks, which could negatively affect our cash flow and financial condition.

We might also face credit risks associated with the concentration of our revenue among a small number of licensees and customers. As of December 31, 2016, four customers represented 88% of total trade receivables. Our failure to collect receivables from any customer that represents a large percentage of receivables on a timely basis, or at all, could adversely affect our cash flow or results of operations and might cause our stock price to fall.

Our products must meet exact specifications, and defects and failures may occur, which may cause customers to return or stop buying our products.

Our customers generally establish demanding specifications for quality, performance and reliability that our products must meet. However, our products are highly complex and may contain defects and failures when they are first introduced or as new versions are released. If defects and failures occur in our products during the design phase or after, we could experience lost revenues, increased costs, including warranty and customer support expenses and penalties for non-performance stipulated in customer purchase agreements, delays in or cancellations or rescheduling of orders or shipments, product returns or discounts, diversion of management resources or damage to our reputation and brand equity, and in some cases consequential damages, any of which would harm our operating results. In addition, delays in our ability to fill product orders as a result of quality control issues may negatively impact our relationship with our customers. We cannot assure you that we will have sufficient resources to satisfy any asserted claims. Furthermore, any such defects, failures or delays may be particularly damaging to us as we attempt to establish our reputation as a reliable provider of IC products.

Because we sell our products on a purchase order basis and rely on estimated forecasts of our customers' needs, inaccurate forecasts could adversely affect our business.

We expect to sell our IC products pursuant to individual purchase orders, rather than long-term purchase commitments. Therefore, we will rely on estimated demand forecasts, based upon input from our customers, to determine how much product to manufacture. Because our sales will be based primarily on purchase orders, our customers may cancel, delay or otherwise modify their purchase commitments with little or no notice to us. For these reasons, we will generally have limited visibility regarding our customers' product needs. In addition, the product design cycle for networking OEMs is lengthy, and it may be difficult for us to accurately anticipate when they will commence commercial shipments of products that include our ICs.

Furthermore, if we experience substantial warranty claims, our customers may cancel existing orders or cease to place future orders. Any cancellation, delay or other modification in our customers' orders could significantly reduce our revenue, cause our operating results to fluctuate from period to period and make it more difficult for us to predict our revenue. In the event of a cancellation or reduction of an order, we may not have enough time to reduce operating expenses to mitigate the effect of the lost revenue on our business.

If we overestimate customer demand for our products, we may purchase products from our manufacturers that we cannot sell. Conversely, if we underestimate customer demand or if sufficient manufacturing and testing capacity were unavailable, we would forego revenue opportunities and could lose market share in the markets served by our products and could incur penalty payments under our customer purchase agreements. In addition, our inability to meet customer requirements for our products could lead to delays in product shipments, force customers to identify alternative sources and otherwise adversely affect our ongoing relationships with our customers.

We depend on contract manufacturers for a significant portion of our revenue from the sale of our IC products.

Many of our current and prospective OEM customers use third party contract manufacturers to manufacture their systems, and these contract manufacturers purchase our products directly from us on behalf of the OEMs. Although we expect to work with our OEM customers in the design and development phases of their systems, these OEMs often give contract manufacturers some authority in product purchasing decisions. If we cannot compete effectively for the business of these contract manufacturers, or, if any of the contract manufacturers that work with our OEM customers experience financial or other difficulties in their businesses, our revenue and our business could be adversely affected. For example, if a contract manufacturer becomes subject to bankruptcy proceedings, we may not be able to obtain our products held by the contract manufacturer or recover payments owed to us by the contract manufacturer for products

already delivered to the contract manufacturer. If we are unable to persuade contract manufacturers to purchase our products, or if the contract manufacturers are unable to deliver systems with our products to OEMs on a timely basis, our business would be adversely affected.

We rely on independent foundries and contractors for the manufacture, assembly, testing and packaging of our integrated circuits, and the failure of any of these third parties to deliver products or otherwise perform as requested could damage our relationships with our customers and harm our sales and financial results.

As a fabless semiconductor company, we rely on third parties for substantially all of our manufacturing operations. We depend on these parties to supply us with material in a timely manner that meets our standards for yield, cost and quality. We do not have long-term supply contracts with any of our suppliers or manufacturing service providers, and therefore they are not obligated to manufacture products for us for any specific period, in any specific quantity or at any specified price, except as may be provided in a particular purchase order. Any problems with our manufacturing supply chain could adversely impact our ability to ship our products to our customers on time and in the quantity required, which in turn could damage our customer relationships and impede market acceptance of our IC solutions.

Our third party wafer foundries, testing and assembly vendors and sales offices are located in regions at high risk for earthquakes and other natural disasters. Any disruption to the operations of these foundries, vendors and offices resulting from earthquakes or other natural disasters could cause significant delays in the development, production, shipment and sales of our IC products.

TSMC, which manufactures our products, is located in Asia, as are other foundries we may use in the future. EAG, which handles the testing of our products, is headquartered in California. Our primary engineering design center is located in Santa Clara, California, and we have sales offices in Japan and China. The risk of an earthquake in the Pacific Rim region is significant due to the proximity of major earthquake fault lines. In September 1999, a major earthquake in Taiwan affected the facilities of several major foundries and other vendors. As a result of this earthquake, these vendors suffered power outages and disruptions that impaired their production capacity. In September 2003 and February 2016, additional disruptive earthquakes occurred in Taiwan. The occurrence of additional earthquakes or other natural disasters could result in the disruption of the wafer foundry or assembly and test capacity of the third parties that supply these services to us and may impede our research and development efforts, as well as our ability to market and sell our products. We may not be able to obtain alternate capacity on favorable terms, if at all.

Any claim that our products or technology infringe third party intellectual property rights could increase our costs of operation and distract management and could result in expensive settlement costs or the discontinuance of our technology licensing or product offerings. In addition, we may incur substantial litigation expense, which would adversely affect our profitability.

The semiconductor industry is characterized by vigorous protection and pursuit of intellectual property rights or positions, which has resulted in often protracted and expensive litigation. We are not aware of any third party intellectual property that our products or technology would infringe. However, like many companies of our size with limited resources, we have not searched for all potentially applicable intellectual property in the public databases. It is possible that a third party now has, or may in the future obtain, patents or other intellectual property rights that our products or technology may now, or in the future, infringe. Our licensees and IC customers, or we, might, from time to time, receive notice of claims that we have infringed patents or other intellectual property rights of others. Litigation against us can result in significant expense and divert the efforts of our technical and management personnel, whether or not the litigation has merit or results in a determination adverse to us.

Royalty amounts owed to us might be difficult to verify, and we might find it difficult, expensive and time-consuming to enforce our license agreements.

The standard terms of our 1T-SRAM license agreements require our licensees to document the manufacture and sale of products that incorporate our technology and generally report this data to us after the end of each quarter. We have

the right to audit these royalty reports periodically, although we have not conducted any such audits since 2010. These audits can be expensive, time-consuming and potentially detrimental to our business relationships. A failure to fully enforce the royalty provisions of our license agreements could cause our revenue to decrease and impede our ability to achieve and maintain profitability.

We might not be able to protect and enforce our intellectual property rights, which could impair our ability to compete and reduce the value of our technology.

Our technology is complex and is intended for use in complex SoCs and networking systems. Our licensees' products utilize our embedded memory and/or I/O technology, and a large number of companies manufacture and market these products. Because of these factors, policing the unauthorized use of our intellectual property is difficult and expensive. We cannot be certain that we will be able to detect unauthorized use of our technology or prevent other parties from designing and marketing unauthorized products based on our technology. In the event we identify any past or present infringement of our patents, copyrights or trademarks, or any violation of our trade secrets, confidentiality procedures or licensing agreements, we cannot assure you that the steps taken by us to protect our proprietary information will be adequate to prevent misappropriation of our technology. Our inability to adequately protect our intellectual property would reduce significantly the barriers of entry for directly competing technologies and could reduce the value of our technology. Furthermore, we might initiate claims or litigation against third parties for infringement of our proprietary rights or to establish the validity of our proprietary rights. Litigation by us could result in significant expense and divert the efforts of our technical and management personnel, whether or not such litigation results in a determination favorable to us.

Our existing patents might not provide us with sufficient protection of our intellectual property, and our patent applications might not result in the issuance of patents, either of which could reduce the value of our core technology and harm our business.

We rely on a combination of patents, trademarks, copyrights, trade secret laws and confidentiality procedures to protect our intellectual property rights. As of December 31, 2017, we held 69 patents in the United States, and approximately 38 foreign patents, which expire at various times from 2018 to 2035. In addition, as of December 31, 2017, we also held 10 pending patent applications worldwide. We cannot be sure that any patents will be issued from any of our pending applications or that any claims allowed from pending applications will be of sufficient scope or strength, or issued in all countries where our products can be sold, to provide meaningful protection or any commercial advantage to us. In December 2011, we sold 43 United States and 30 related foreign patents, which reduced the size of our patent portfolio and diminishes our ability to assert counterclaims in the defense of actions against us that may arise. Also, competitors might be able to design around our patents. Failure of our patents or patent applications to provide meaningful protection might allow others to utilize our technology without any compensation to us.

The discovery of defects in our technology and products could expose us to liability for damages.

The discovery of a defect in our technologies and products could lead our customers to seek damages from us. Many of our agreements with customers include provisions waiving implied warranties regarding our technology and products and limiting our liability to our customers. We cannot be certain, however, that the waivers or limitations of liability contained in our agreements with customers will be enforceable.

If we fail to retain key personnel, our business and growth could be negatively affected.

Our business has been dependent to a significant degree upon the services of a small number of executive officers and technical employees. The loss of key personnel could negatively impact our technology development efforts, our ability to deliver under our existing agreements, maintain strategic relationships with our partners, and obtain new customers. We generally have not entered into employment or non-competition agreements with any of our employees and do not maintain key-man life insurance on the lives of any of our key personnel.

We may incur additional debt in the future, subject to certain limitations contained in our senior secured convertible notes.

The degree to which we are leveraged and the restrictions governing our indebtedness could have important consequences including, but not limited to:

· limiting our ability to service all of our debt obligations;

- · impacting our ability to incur additional indebtedness or obtain additional financing in the future for working capital, capital expenditures, acquisitions or general corporate or other purposes;
- · increasing our vulnerability to general economic downturns and adverse industry conditions;
- · limiting our flexibility in planning for, or reacting to, changes in our business and our industry; and
- · limiting our ability to engage in certain transactions or capitalize on acquisition or other business opportunities. If we are in violation of the terms of the Notes in the future and do not receive a waiver, the note holders could choose to accelerate payment on all outstanding loan balances. If we needed to obtain replacement financing, we may not be able to quickly obtain equivalent or suitable replacement financing. If we are unable to secure alternative sources of funding, such acceleration would have a material adverse impact on our financial condition.

Our failure to successfully address the potential difficulties associated with our international operations could increase our costs of operation and negatively impact our revenue.

We are subject to many difficulties posed by doing business internationally, including:

- · foreign currency exchange fluctuations;
- · unanticipated changes in local regulation;
- · potentially adverse tax consequences, such as withholding taxes and transfer pricing issues;
- · political and economic instability; and
- · reduced or limited protection of our intellectual property.

Because we anticipate that integrated circuit sales to companies that operate primarily outside the United States may account for a substantial portion of our revenue in future periods, the occurrence of any of these circumstances could significantly increase our costs of operation, delay the timing of our revenue and harm our profitability.

Provisions of our certificate of incorporation and bylaws or Delaware law might delay or prevent a change of control transaction and depress the market price of our stock.

Various provisions of our certificate of incorporation and bylaws might have the effect of making it more difficult for a third party to acquire, or discouraging a third party from attempting to acquire, control of our company. These provisions could limit the price that certain investors might be willing to pay in the future for shares of our common stock. Certain of these provisions eliminate cumulative voting in the election of directors, limit the right of stockholders to call special meetings and establish specific procedures for director nominations by stockholders and the submission of other proposals for consideration at stockholder meetings.

We are also subject to provisions of Delaware law which could delay or make more difficult a merger, tender offer or proxy contest involving our company. In particular, Section 203 of the Delaware General Corporation Law prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years unless specific conditions are met. Any of these provisions could have the effect of delaying, deferring or preventing a change in control, including without limitation, discouraging a proxy contest or making more difficult the acquisition of a substantial block of our common stock.

Under our certificate of incorporation, our board of directors may issue up to 20,000,000 shares of preferred stock without stockholder approval on such terms as the board might determine. The rights of the holders of common stock will

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be subject to, and might be adversely affected by, the rights of the holders of any preferred stock that might be issued in the future.

Our stockholder rights plan could prevent stockholders from receiving a premium over the market price for their shares from a potential acquirer.

We adopted a stockholder rights plan that generally entitles our stockholders to rights to acquire additional shares of our common stock when a third party acquires 15% of our common stock or commences or announces its intent to commence a tender offer for at least 15% of our common stock, other than for one group of related stockholders, as to whom this threshold is 20%. The plan also includes an exception to permit the acquisition of shares representing more than 15% of our common stock by a brokerage firm that manages independent customer accounts and generally does not have any discretionary voting power with respect to such shares. This plan could delay, deter or prevent an investor from acquiring us in a transaction that could otherwise result in stockholders receiving a premium over the market price for their shares of common stock. Our intention is to maintain and enforce the terms of this plan, which could delay, deter or prevent an investor from acquiring us in a transaction that could otherwise result in stockholders receiving a premium over the market price for their shares of common stock.

Potential volatility of the price of our common stock could negatively affect your investment.

We cannot assure you that there will continue to be an active trading market for our common stock. Historically, the stock market, as well as our common stock, has experienced significant price and volume fluctuations. Market prices of securities of technology companies have been highly volatile and frequently reach levels that bear no relationship to the operating performance of such companies. These market prices generally are not sustainable and are subject to wide variations. If our common stock trades to unsustainably high levels, it is likely that the market price of our common stock will thereafter experience a material decline. In the past, our board of directors approved stock repurchase programs, and any future program could impact the price of our common stock and increase volatility.

In the past, securities class action litigation has often been brought against a company following periods of volatility in the market price of its securities. We could be the target of similar litigation in the future. Securities litigation could cause us to incur substantial costs, divert management's attention and resources, harm our reputation in the industry and the securities markets and negatively impact our operating results.

Our stock price could drop, and there could be significantly less trading activity in our stock, if securities or industry analysts downgrade our stock or do not publish research or reports about our business.

Our stock price and the trading market for our stock are likely to be affected significantly by the research and reports concerning our company and our business which are published by industry and securities analysts. We do not have any influence or control over these analysts, their reports or their recommendations. Our stock price and the trading market for our stock could be negatively affected if any analyst downgrades our stock, publishes a report which is critical of our business, or discontinues coverage of us.

We are a "smaller reporting company" and, as a result of the reduced disclosure and governance requirements applicable to smaller reporting companies, our common stock may be less attractive to investors.

We are a "smaller reporting company," meaning that we are not an investment company, an asset-backed issuer, or a majority-owned subsidiary of a parent company that is not a "smaller reporting company," have a public float of less than \$75 million and have annual revenues of less than \$50 million during the most recently completed fiscal year. As a "smaller reporting company," we are subject to lesser disclosure obligations in our SEC filings compared to other issuers. Specifically, "smaller reporting companies" are able to provide simplified executive compensation disclosures in their filings, are exempt from the provisions of Section 404(b) of the Sarbanes-Oxley Act requiring that independent registered public accounting firms provide an attestation report on the effectiveness of internal control over financial reporting and have certain other decreased disclosure obligations in their SEC filings, including, among other things, only being required to provide two years of audited financial statements in annual reports. Decreased disclosures in our SEC filings due to our status a "smaller reporting company" may make it harder for investors to analyze our operating results and financial prospects.

If we fail to maintain compliance with the continued listing requirements of the Nasdaq Capital Market, our common stock may be delisted and the price of our common stock and our ability to access the capital markets could be negatively impacted.

Our common stock currently trades on The NASDAQ Stock Market (Nasdaq) under the symbol "MOSY." This market has continued listing standards that we must comply with in order to maintain the listing of our common stock. The continued listing standards include, among others, a minimum bid price requirement of \$1.00 per share and any of: (i) a minimum stockholders' equity of \$2.5 million; (ii) a market value of listed securities of at least \$35.0 million; or (iii) net income from continuing operations of \$500,000 in the most recently completed fiscal year or in the two of the last three fiscal years. Our results of operations and fluctuating stock price directly impact our ability to satisfy these continued listing standards. In the event we are unable to maintain these continued listing standards, our common stock may be subject to delisting from the Nasdaq Capital Market.

On July 14, 2016, we received a deficiency letter from the Listing Qualifications Department (the Staff) of Nasdaq providing notification that the Company was not in compliance with Nasdaq's audit committee composition requirements pursuant to Nasdaq Listing Rule 5605(c)(2). Nasdaq Listing Rule 5605 requires a listed company to have an audit committee comprised of at least three independent members and, during 2016, the number of independent directors on our Audit Committee was reduced from three to two. The letter also stated that we would be provided: (i) until the earlier of our next annual shareholders' meeting or June 24, 2017. On October 6, 2017, we received a letter from Nasdaq notifying us that we had regained compliance with Nasdaq's audit committee, independent director and compensation committee requirements for continued listing. The letter noted that with the appointments of Daniel Lewis and Daniel O'Neil to our board of directors on September 26, 2017, we had regained compliance with Nasdaq Marketplace Rules 5605(c)(2), 5605(b)(1) and 5605(d)(2). On October 18, 2017, we received a deficiency letter from the Listing Qualifications Department (of The NASDAQ Stock Market ("Nasdaq") providing notification that, for the previous 30 consecutive business days, the bid price for the Company's common stock had closed below the minimum \$1.00 per share requirement for continued inclusion on the Nasdaq Global Select Market pursuant to Nasdaq Listing Rule 5450(a)(1). On November 30, 2017, Nasdaq informed us that, as of November 28, 2017, we evidenced a closing bid price of our common stock in excess of the \$1.00 minimum requirement for the last 10 consecutive trading days, and that, accordingly, we had regained compliance with Nasdaq Marketplace Rule 5550(a)(2) and NASDAQ considered the matter closed.

We have received similar deficiency letters from time to time prior to 2017, and may receive them again in the future. Ultimately such deficiencies, if not remedied, could cause Nasdaq to delist our common stock. If we are delisted, we would expect our common stock to be traded in the over-the-counter market, which could adversely affect the

liquidity of our common stock. Additionally, we could face significant material adverse consequences, including:

- · a limited availability of market quotations for our common stock;
- · a reduced amount of analyst coverage;

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- · a decreased ability to issue additional securities or obtain additional financing in the future;
- · reduced liquidity for our stockholders;
- · potential loss of confidence by customers, collaboration partners and employees; and
- · loss of institutional investor interest.

USE OF PROCEEDS

All shares of our common stock offered by this prospectus are being registered for the account of the selling stockholders. We will not receive any of the proceeds from the sale of these shares. We will receive proceeds from the cash exercise of the warrants which, if exercised in cash with respect to all of the 662,500 shares of common stock, would result in gross proceeds of \$1,556,875 to us before commissions and expenses. We intend to use the net proceeds, if any, received from the exercise of the warrants for working capital and other general corporate purposes.

MARKET INFORMATION FOR OUR COMMON STOCK

The following table sets forth the range of high and low sales prices of our common stock on the NASDAQ Capital Market for the periods indicated:

	High	Low
2017	-	
First Quarter (January 1 – March 31, 2017)	\$ 4.32	\$ 2.00
Second Quarter (April 1 – June 30, 2017)	\$ 2.70	\$ 0.64
Third Quarter (July 1 – September 30, 2017)	\$ 1.81	\$ 0.89
Fourth Quarter (October 1 – December 31, 2017)	\$ 1.45	\$ 0.64

Dividend Policy

We have never declared or paid any cash dividends on our common stock and do not currently anticipate declaring or paying cash dividends on our common stock in the foreseeable future. We currently intend to retain all of our future earnings, if any, to finance operations. Any future determination relating to our dividend policy will be made at the discretion of our board of directors and will depend on a number of factors, including future earnings, capital requirements, financial conditions, future prospects, contractual restrictions and other factors that our board of directors may deem relevant.

Holders of Record

As of December 31, 2017, there were 6 holders of record of our common stock. The actual number of stockholders is greater than this number of record stockholders and includes stockholders who are beneficial owners but whose shares are held in street name by brokers and other nominees. This number of stockholders of record also does not include stockholders whose shares may be held in trust by other entities.

Stock Performance Graph

The following graph compares cumulative total stockholder return on our common stock with that of the S&P 500 Index and the S&P Technology Sector Index from 2012 through 2017. The comparison assumes that \$100 was invested on December 31, 2012 in our common stock, the stocks included in the S&P 500 Index and the stocks

included in the S&P Technology Sector Index. We have never paid any cash dividends to holders of our common stock.

The comparisons shown in the graph below are based upon historical data, and we caution that the stock price performance shown in the graph below is not indicative of, nor intended to forecast, the potential future performance of our common stock. Information used in the graph was obtained from Standard and Poor's website, a source believed to be reliable, but we are not responsible for any errors or omissions in such information.

Comparison of Five-Year Cumulative Return

	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017
MOSYS, INC.	\$ 100.00	\$ 158.62	\$ 53.74	\$ 31.32	\$ 6.61	\$ 3.19
S & P 500	100.00	129.60	144.36	143.31	156.98	187.47
S & P TECHNOLOGY						
SECTOR	100.00	127.97	154.19	158.92	177.96	243.65

Securities Authorized for Issuance under Equity Compensation Plan

The following table provides information as of December 31, 2017 regarding equity compensation plans approved by our security holders. As of December 31, 2017, we had no awards outstanding under equity compensation plans that have not been approved by our security holders.

			Number of Securities	
	Number of Securities		Remaining Available for	
	to be Issued	Weighted Average	Future Issuance under	
	Upon Exercise of	Exercise Price of	Equity Compensation Plans	
	Outstanding Options,	Outstanding Options(excluding Securities		
Plan Category	Warrants and Rights	Warrants and Rightsreflected in Column (a))(1)		
	(a)	(b)	(c)	
Equity compensation plans				
approved by security holders	683,934	\$ 4.81	378,209	

⁽¹⁾ Consists of shares of common stock available for future issuance under the Equity Plan and shares of common stock available for future issuance under the Amended and Restated 2010 Employee Stock Purchase Plan. The Equity Plan provides for an annual increase of 50,000 shares on January 1 of each year.

BUSINESS

Overview

We are a fabless semiconductor company focused on the development and sale of integrated circuits, or ICs, for the high-speed networking, communications, storage and computing markets. Our solutions deliver time-to-market, performance, signal integrity, power, area and economic benefits for system original equipment manufacturers, or OEMs. We have developed two IC product lines under the Bandwidth Engine and LineSpeed product names. Bandwidth Engine ICs integrate our proprietary 1T-SRAM high-density embedded memory with our integrated macro function technology and a highly efficient serial interface protocol resulting in a monolithic memory IC solution optimized for transaction performance. As the bandwidth requirements and amount of processing per packet increase in high-speed networking systems, critical memory access bottlenecks occur. Our Bandwidth Engine IC, with its combination of serial I/O, high-speed memory, offload functions and efficient, intelligent access, drastically increases memory accesses per second, removing these bottlenecks. In addition, the serial interface and high memory capacity

reduce the board footprint,

number of pins and complexity while using less power. The LineSpeed IC product line, which we announced in March 2013, is comprised of non-memory, high-speed serialization-deserialization, or SerDes, I/O physical layer, or PHY, devices that ensure signal integrity between interfaces which is commonly referred to as clock data recovery, or CDR, or retimer functionality, which perform multiplexing to transition from one speed to another, commonly referred to as Gearbox functionality. These PHY devices reside within optical modules and networking equipment line cards designed for next-generation Ethernet and optical transport network applications.

We are currently supporting existing design win customers, primarily for Bandwidth Engine, and actively pursuing additional design wins for the use of our ICs in networking, communications and data center equipment. We have established initial pricing of our IC products ordered to date, but longer-term volume prices will be subject to negotiations with our customers and may vary substantially from these initial prices.

Prior to 2010, our primary business was the design, development, marketing, sale and support of differentiated intellectual property, or IP, including embedded memory and high-speed parallel and serial I/O used in advanced systems-on-chips, or SoCs. Currently, we are focused on developing differentiated IP-rich IC products and are dedicating all our research and development, marketing and sales budgets to these IC products. Royalty and other revenue generated from our existing IP agreements represented 45% of our total revenue in 2015 and 24% in 2016. We expect royalty and other revenue to continue to decline in 2018 both in absolute dollars and as a percentage of revenues.

Our future success and ability to achieve and maintain profitability are dependent on the marketing and sales of our IC products into networking, communications and other markets. Since the beginning of 2010, we have invested substantially all of our of our research and development resources toward development of our ICs, and, as of the end of 2012, had ceased our efforts to actively market our IP and establish license agreements for customers' new SoC development projects.

Industry Background

The amount of data being transferred by networking, storage and computing systems is increasing rapidly, primarily driven by the growth of the Internet and demand for real-time processing of bandwidth intensive applications, such as video-on-demand, Internet protocol TV, peer-to-peer and cloud computing, web 2.0 applications, 4G/LTE wireless, voice-over-Internet protocol, and many others. In order to meet these demands, the network backbone, access, storage and data center infrastructure must scale in bandwidth and processing capability. In addition, system designers face the challenge of increasing the throughput of all subsystems for a variety of applications, such as video games, medical record and imaging transfers, and file sharing. These increased demands strain communication between onboard IC devices, limiting the data throughput in network switches and routers and the network backbone.

To meet these demands, carrier and enterprise networks are undergoing significant changes and, most significantly, are migrating to packet-based Ethernet networks that enable higher throughput, lower cost and uniform technology across access, core and metro network infrastructure. These networks are now being designed to deliver voice, video and high-speed Internet access on one converged, efficient and flexible network. These trends require networking systems, especially the high-speed switches and routers that primarily comprise these networks, to comply with evolving market requirements and be capable of providing new services and better quality of service while supporting new protocols and standards. To support these trends, OEM network and telecommunications equipment manufacturers, such as Alcatel-Lucent (a subsidiary of Nokia Corporation), Brocade Communications Systems, Inc., Cisco Systems, Inc., Tel. LM Ericsson, Fujitsu Ltd., Hitachi Ltd., Huawei Technologies, Juniper Networks, Inc., Nokia Corporation, and ZTE Corporation, must offer higher levels of packet forwarding rates, bandwidth density and be optimized to enable higher-density, lower power data path connectivity in the next generations of their networking systems.

Networking and telecommunications systems throughout the network must operate at higher speed and performance levels and so require new generations of packet processors and improved memory subsystems, as well as new physical interface products, to enable system performance. These systems and their component line cards generally need to support aggregate rates of 100 gigabits per second, or Gbps, and above to meet the continued growth in network traffic. Cloud services have accelerated this transition with applications such as security. Data centers and access equipment that were previously aggregating slower traffic such at 1Gbps to 10Gbps, and 40Gbps, now are being designed

to aggregate traffic at 10Gbps to 100Gbps, or more. The transition to 100 Gbps networks has begun, and 100 Gbps networks are expected to grow rapidly over the coming years.

Several types of semiconductors are included on each line card, including PHY, one or more packet processors and multiple memory chips. Packet processors are complex ICs or IC chipsets that perform high speed processing for functions, such as traffic routing, shaping, metering, billing, statistics, detection and steering. The line cards use various types of memory ICs to facilitate temporary packet storage and assist in the analysis and tracking of information embedded within each packet flowing through the processors. After a packet enters the line card through a PHY, a packet or data processor helps separate the packet into smaller pieces for rapid analysis. Typically, the data is broken up into the packet header, which contains vital information on packet destination and type, such as the Internet protocol address, and the payload, which contains the data being sent. Generally, the line card operations must occur at full data rates and typically require accessing memory ICs many times. Simultaneously, the packet's payload, which may be substantially larger than the packet header, is also stored in memory ICs until processing is complete and the packet can re-combine and be sent to its next system destination. Within the line card, communication between the packet processor and memory ICs occurs through an interface consisting of combinations of physical pins on each type of chip. These pins are grouped together in a parallel or a serial architecture to form a pathway, called a bus, through which information is transferred from one IC to the next.

Today, the majority of physical buses that connect networking equipment and components use a parallel architecture to communicate between processors and memory ICs, which means information can travel only in one direction and in one instance at a time. As processing speeds increase, the number of pins required and the speed of the bus in a parallel architecture become a limitation on system performance and capability. In contrast, the number of connections is reduced substantially across fewer, higher-rate pins in a serial architecture, and data is transferred simultaneously in both directions. Data transfer rates with high-speed serial bus architectures and more advanced I/O protocols are limited by the capabilities of the various ICs included on the line card, thus leading to bottlenecks when these ICs perform inadequately. In order to remove these bottlenecks and meet next-generation bandwidth requirements, the line card ICs must support high-speed serial bus architectures and these more advanced I/O protocols.

Most networking and communication systems sold and in operation today include line cards that process data at speeds ranging from 10 Gbps, to 100 Gbps, and support many aggregated slower ports. To accommodate the substantial and growing increase in demand for networking communications and applications, networking systems manufacturers are developing and bringing to market next-generation systems that run at aggregate speeds of 100 to 400 Gbps or more with developments underway to scale to thousands of Gbps, or terabits, per second. However, although processor performance in applications such as computing and networking has continued to double nearly every 18 months, or even sooner, the performance of memory technology has generally been able to double only once every 10 years. Existing memory IC solutions based on parallel I/O architecture easily support speeds up to 40 Gbps, but are not optimal for meeting speeds of 100 Gbps and beyond due to system-level limitations for pin counts, power and performance. These networking and communications systems are generally comprised of a chassis populated by four to 16 line cards. Often, these systems are shipped to customers with only a portion of the line card slots populated, and the customer will add additional line cards subsequently to increase system performance and capacity.

Each line card requires a significant amount of memory to support its processing capabilities. Traditional external memory IC solutions currently used on line cards include both dynamic random access memory, or DRAM, and static random access memory, or SRAM. Line cards in networking systems use both specialized, high-performance DRAM ICs, such as reduced-latency DRAM, or RLDRAM, low-latency DRAM, or LLDRAM, and commodity DRAM, such as double data rate, or DDR ICs. In addition, networking systems use higher-performance SRAM ICs such as quad data rate, or QDR SRAM. Substantially all of these traditional memory IC solutions use parallel interfaces, which are slower than serial interfaces, so we believe they will be increasingly challenged to meet the performance, pin count, area and power requirements as networking systems expand beyond 100 Gbps. The result is a gap between processor

and memory performance. To meet the higher performance requirements being demanded by the industry, while using current components and architectural approaches, system designers must add more discrete memory ICs to the line cards and/or add more embedded memory on the packet processor. This results in higher cost and power consumption, the use of more space on the line cards and additional communication interference between the ICs, which in turn results in additional

bandwidth limitation problems. We believe our Bandwidth Engine family of products is well suited to address these challenges and replace these traditional memory solutions.

In addition, each line card requires PHY products to provide interoperability and signal integrity functions. As network speeds increase beyond 100Gbps, the serial data rates are transitioning from 10Gbps to 25Gbps. This means that the signal integrity challenges (maintaining the quality of the electrical signals) of moving these high speed signals around within line cards, or between line cards and systems using fiber optic or copper cable, increase as data rates increase. These networking systems often use copper or optical modules to modify signals for transmission over longer distances ranging from tens of meters to thousands of kilometers. Optical modules convert electrical signals to optical signals for transportation over longer distances from one system to another system. Because of the challenges arising from the increase in network speeds, new 100Gbps standards have emerged that specify a CDR or retimed interface on optical modules, which was not the case at 10Gbps based interfaces. Each 100Gbps module and above using 25Gbps per lane will require a CDR/retimer function inside the module to meet these requirements. In addition, the systems themselves also require additional support to move signals between the module and the system, and these challenges become more acute as the distance increases. Our LineSpeed products address these new line card and optical module challenges by providing unique signal integrity and feature sets that align with the industry standards, as well as provide backward compatibility for the previous data rates. We believe our LineSpeed PHY products are well suited ensure the quality of signals and/or increase the transmission distance for both short reach (e.g., between ICs on a line card) or long-reach (e.g., between line cards or systems).

We have developed our Bandwidth Engine and LineSpeed families of ICs to synergistically address the need for high-speed data access and throughput currently confronting networking system designers. We expect our IC products to meet the increasing demands placed on conventional memory technology used on the line cards in high-bandwidth networking systems. We believe that our products and technology are well positioned as replacements for existing IC solutions in order to meet the needs of the next-generation networking systems that will require a large number of packet lookups and to support aggregated rates greater than 100 Gbps.

Our Approach

Our historical business was focused on the licensing of our proprietary 1T- SRAM and SerDes I/O technologies. We have leveraged our proprietary IP to design our Bandwidth Engine and LineSpeed IC product families to help networking OEMs address the growing bottlenecks in system performance. We have incorporated critical features into our product families to accomplish this objective.

On-Chip Functionality

One significant performance bottleneck in any network line card is the need to transfer data between discrete ICs. Many of these data-transfer operations are iterative in nature, requiring subsequent, back-to-back accesses of the memory IC by the processor IC. Our Bandwidth Engine ICs include an arithmetic logic unit, or ALU, which enables the Bandwidth Engine IC to perform mathematical operations on data. Moving certain processing functions from the processor IC to the Bandwidth Engine IC through the use of this embedded ALU, reduces the number of I/O transactions and frees the processor IC to perform other important networking or micro-processing functions.

High-Performance Interface

High-speed, efficient interface I/Os are critical building blocks to meet high data transfer rate requirements for communication between ICs on network line cards. We believe that current networking system requirements necessitate an industry transition from parallel to serial I/O. As a result, semiconductor companies are increasingly turning to serial I/O architectures to achieve needed system performance. For example, high-performance ICs that are

sold into wide markets, such as field programmable gate arrays, or FPGAs, and network processing units, NPUs, are using serial I/Os to ensure they can compete with custom designed application specific ICs, or ASICs, by matching their performance. Using serial I/O, IC developers also are able to reduce pin count (the wired electrical pins that connect an IC to the network line card on which it is mounted) on the IC. With reducing geometries, the size of most high-performance ICs is dictated by the number of pins required, rather than the amount of logic and memory embedded in the chip. As a result, using serial

I/O facilitates cost reduction and reduced system power consumption, while improving the performance of both the IC itself and the overall system. While SerDes I/Os provide significantly enhanced performance over parallel I/Os, SerDes I/Os traditionally have had higher power consumption, which is a challenge for IC designers. Our SerDes I/Os, however, are tuned for low power consumption to meet our customers' stringent power consumption requirements.

We make our I/O technologies compliant with industry standards so that they can interoperate with interfaces on existing ICs. In addition, we make them programmable to support multiple data rates, which allows for greater flexibility for the system designer, while lowering their development and validation costs. Interoperability reduces development time, thereby reducing the overall time to market of our customers' systems.

Analog Design Capabilities

We have invested in personnel needed to define, design and market high- performance analog IC products. We have built a team of experienced engineers who combine industry expertise with advanced semiconductor design expertise to meet customer requirements and develop new products to bring to market. We initially developed our team of analog engineers to develop the SerDes I/O used in our Bandwidth Engine families of products. We leveraged the capabilities of this team to produce our LineSpeed IC products, which are primarily comprised of analog circuitry.

GigaChip Interface Protocol

In addition to the physical characteristics of the serial I/O, the protocol used to transmit data is also an important element that impacts speed and performance. To address this and complement our Bandwidth Engine devices, we have developed the GigaChip Interface®, or GCI, which is an open-interface transport protocol optimized for efficient chip-to-chip communications. The GCI electrical interface is compatible with the current industry standard (Common Electrical Interface, release #11, or CEI-11G-SR and XFI) to simplify electrical interoperability between devices. GCI can enable highly efficient serial chip-to-chip communications, and its transport efficiency averages 90% for the data transfers it handles. GCI is included in our Bandwidth Engine ICs, and is offered to customers and prospective partners on terms intended to encourage widespread adoption.

High-Performance and High-Density Memory Architecture

The high-density of our proprietary 1T-SRAM technologies stems from the use of a single-transistor, or 1T, which is similar to DRAM, with a storage cell for each bit of information. Embedded memory utilizing our 1T-SRAM technologies is typically two to three times denser than the six-transistor storage cells used by traditional SRAM, or 6T-SRAM. Embedded memory utilizing our 1T-SRAM technologies typically provides speeds essentially equal to or greater than the speeds of traditional SRAM and DRAM, particularly for larger memory sizes. Our 1T-SRAM memory designs can sustain random access cycle times of less than three nanoseconds, significantly faster than embedded 6T-SRAM technology. Embedded memory utilizing our 1T-SRAM technologies can consume as little as one-half the active power and generate less heat than traditional SRAM when operating at the same speed. This reduces system level heat dissipation and enables reliable operation using lower cost packaging.

Our Strategy

Our primary business objective is to be an IP-rich fabless semiconductor company offering ICs that deliver unparalleled memory bandwidth performance for packet processing and improved signal integrity performance for networking, security and data center systems. The key components of the expansion of our strategic plan to become an IC supplier include the following strategies:

Target Large and Growing Markets

Our initial strategy is to target the multi-billion dollar networking telecommunications, security and data center OEM equipment markets, and we have developed products to support the growth in 100 Gbps and higher networking speeds. We are currently supporting approximately 25 existing customers, with whom we have achieved over 85 design wins, which reflects broadening acceptance of our products. We define a design win as the point at which a customer has

made a commitment to build a board against the fixed schematic for his system, and this board will utilize our IC products. We continue to actively pursue additional design wins for the use of our ICs in our target markets. We believe our design wins represent the potential for significant future revenues. With limited history to date, however, we cannot estimate how much revenue each design win is likely to generate, or how much revenue all of these (and future design wins) are likely to generate. For example, our first design wins from 2012 and 2013 are starting to ramp into production, and, while we cannot predict how steep these ramps might be, we expect our revenues from them to grow in successive periods over the next few years. However, there is no assurance that these customer designs will be shipped in large volume by our customers to their customers.

Leverage Technologies to Create New Products

Our strategy is to combine our proprietary IP and design and applications expertise to address the needs of several upcoming generations of advanced networking systems. We believe an IC combining our 1T-SRAM and serial I/O with logic, such as in an ALU, and other functions can provide a system-level solution and significantly improve overall system performance at lower cost while using less power. We also seek to leverage our high-speed serial I/O to create non-memory denominated ICs, such as our LineSpeed products. Our initial LineSpeed products targeted the line card and the same customers as our Bandwidth Engine products. This has given us the opportunity to provide both memory and PHY solutions during the sale process. In 2013, we introduced our first LineSpeed products to address the requirements new industry standards were placing on optical modules, as well as line cards.

Expand Adoption of the GigaChip Interface Protocol

We have provided our GCI interface protocol as an open industry standard that may be designed into other ICs in the system, as we believe this will further enable serial communication on network line cards and encourage adoption of our Bandwidth Engine IC products. A number of IC providers and partners have publicly announced their support of GCI and Bandwidth Engine, including the largest FPGA providers, Altera Corporation (a subsidiary of Intel Corporation), Xilinx, Inc., and EZchip Semiconductor Ltd. (a subsidiary of Mellanox Technologies Ltd.), with whom we work closely to support common customers. In addition, multiple networking systems companies, including actual and prospective customers, have adopted GCI.

Build Long-Term Relationships with Suppliers of Packet Processors

We believe that having long-term relationships with packet processor providers is critical to our success, as such relationships may enable us to reduce our time-to-market, provide us with a competitive advantage and expand our target markets. A key consideration of network system designers is to demonstrate interoperability between our Bandwidth Engine IC and the packet processors utilized in their systems. To obtain design wins for our Bandwidth Engine IC, we must demonstrate this interoperability, and also show that our IC works optimally with the packet processor to achieve the performance requirements. In addition, our current strategy requires packet processor suppliers to adopt our GCI interface. To that end, we have been working closely with FPGA, ASIC and NPU providers, to enable interoperability between our Bandwidth Engine IC products and their high-performance products. To facilitate the acceptance of our Bandwidth Engine ICs, we have made available development and characterization kits for system designers to evaluate and develop code for next-generation networking systems. Our characterization kits are fully-functional hardware platforms that allow FPGA and ASIC providers, and their customers, to demonstrate interoperability of the Bandwidth Engine IC with the ASIC or FPGA the designers use within their networking systems. Our recent announcement of the third-generation Bandwidth Engine Z30 device, designed for interoperability with the EZ-chip NPS-400, is an example and direct result of this strategy.

Our Products

Bandwidth Engine

The Bandwidth Engine is a memory-dominated IC that has been designed to be a high-performance companion IC to packet processors. While the Bandwidth Engine primarily functions as a memory device with a high-performance and high-efficiency interface, it also can accelerate certain processing operations by serving as a co-processor element. Our Bandwidth Engine ICs combine: (1) our proprietary high-density, high-speed, low latency embedded memory, (2) our

high-speed serial interface technology, or SerDes, (3) an open-standard interface protocol and (4) intelligent access technology. We believe an IC combining our 1T-SRAM memory and serial I/O with logic and other intelligence functions provides a system-level solution and significantly improves overall system performance at lower cost, size and power consumption. Our Bandwidth Engine ICs can provide up to and over 4.5 billion memory accesses per second, which is more than twice the performance of current memory-based solutions. They also can enable system designers to significantly narrow the gap between processor and memory IC performance. Customers that design Bandwidth Engine ICs onto the line cards in their networking systems will re-architect their systems at the line-card level and use our product to replace traditional memory solutions. When compared with existing commercially available solutions, our Bandwidth Engine ICs may:

- · provide up to four times the performance;
- · reduce power by approximately 50%;
- · reduce cost by greater than 50%; and
- · result in a dramatic reduction in IC pin counts on the line card.

Our first generation Bandwidth Engine IC products contain 576 megabytes, or MB, of memory and use a serial I/O with up to 16 lanes operating at up to 10.3 Gbps per lane. Variations of this IC can have up to two interface ports, with up to eight serial receiver and eight serial transmitter lanes per port for a total of 16 lanes of 10.3 Gbps SerDes interface. These ICs include an ALU, which can perform read-modify-write operations. We have been shipping our initial Bandwidth Engine products since 2012. We have notified customers, however, that we intend to discontinue our BE1 products. We expect to complete final shipments of our BE1 products by the end of 2018.

Our second generation Bandwidth Engine IC products contain 576 MB of memory and use serial I/O with up to 16 lanes operating at up to 15 Gbps per lane. In addition to a speed improvement of up to 50%, the architecture will enable several family member parts with added specialized features. To date, we have announced three unique devices in this product family:

- · MSR620 with burst features optimized for oversubscription buffer applications;
- · MSR720 with a write cache and memory coherency capability that allows for deterministic look-ups optimized for state and queue type applications; and
- · MSR820 with increased intelligence for lookup, metering and statistics applications by adding dual counters, atomic and extensive metering functions.

We have been shipping our Bandwidth Engine 2 IC products since 2013.

Our third generation Bandwidth Engine IC products contain 1152 MB of memory and use serial I/O with up to 16 lanes operating at up to 30 Gbps per lane. Bandwidth Engine 3 targets support for packet-processing applications with up to five billion memory single word accesses per second, as well as burst mode to enable full duplex buffering up to 400Gbps for ingress, egress and oversubscription applications. To date, we have announced three unique devices in this product family:

- · MSR630 enables high rate lookup or high-performance buffer capabilities;
- · MSR830 offers additional offload capabilities for functions such as statistics and metering to increase performance and add features for next-generation networking and communications equipment; and

· MSRZ30 builds upon the capabilities and performance of the MSR830, with data rates, interface protocol and data structures that are optimized for the EZchip NPS-400 network processing unit, or NPU, and can increase memory bandwidth by up to 50%.

We commenced sampling of these products in the first quarter of 2016.

The devices provide benefits of size, power, pin count and cost savings to our customers. We do not anticipate significant revenues from these products until 2018 or later.

Programmable Search Engine

We brought our Programmable Search Engine, or PSE, IC products to market in early 2016 to further leverage our proven serial interface technology and high-density integrated memory with the processor engine architecture to enable high-speed customizable search, security, and data analysis functions for networking, security, and data center applications. Our PSE architecture features 32 search-optimized processor engines, data flow schedulers, and over a terabit of internal access bandwidth. The device leverages our GCI technology and high-density integrated memory (1152 Mb of 1T-SRAM® embedded memory). The PSE device's 32 processor elements have direct access to integrated table memory through an internal interconnect and scheduler architecture.

LineSpeed

Our first generation LineSpeed products consist of single-chip PHY ICs, including a 100G multi-mode gearbox and a 100G quad retimer. These devices are designed to support 10, 40 and 100Gbps standards for high-density line cards or modules for next generation ethernet and optical transport network applications. These devices are capable of supporting both short and long reach connections across different specifications. We have developed these PHY ICs to provide the CDR function and to provide signal conversion from lower rates to higher rates both on the line card and within the optical module. We have defined performance and form factor (sizes) for specific devices for optimization of features and performance to solve space challenges both on the line card and in the optical module. We introduced and began sampling these devices in 2013.

Our second generation of LineSpeed products consists of our 100G low power retimer, which is optimized for ultra low power consumption, integrated test features and small size. The low-power retimer is primarily targeting opportunities in 100G CFP2, CFP4 and QSFP28 optical modules and active copper cables. We introduced and began sampling this product in 2014.

Our third generation of LineSpeed products, the Flex family of 100G PHYs, is designed to support the latest industry standards and includes gearbox, Multi-Link Gearbox, or MLG, and high density CDR/retimer devices designed to enable existing and next generation Ethernet and OTN line card applications to support the latest high-density electrical and optical interfaces. To date, we have announced four unique devices in this product family:

- · MSH320, a 100Gbps Gearbox with RS-FEC: For adapting 10x10 to 4x25 from 100Gbps optical standards to a host ASIC, MAC/Framer, NPU or FPGA with 10x10G interfaces. The MSH320 includes an integrated Reed-Solomon forward error correction, or RS-FEC, option to enable systems to also support new electrical and optical standards. The device also includes a 10x10Gbps retimer to allow seamless support of 10 and 40Gbps interfaces;
- · MSH225, a 10 Lane Full-Duplex Retimer: For high-density retiming applications where the line rates may be up to 28Gbps per lane and connect to host ASIC, framer, NPU or FPGA ICs equipped with 25Gbps interfaces. Each one of the 20 total independent lanes can be configured to support 10, 25, 40 or 100Gbps standards. The MSH225 integrates optional 100Gbps RS-FEC capability and includes a unique redundant link mode feature to support redundancy, scaling or monitoring features;

.

MSH322, a 100Gbps Multi-Link Gearbox for Line Cards for support of high-density, independent 10GE and 40GE interfaces multiplexed into a 100GE (4x25Gbps) host interface, while supporting the latest optical

industry standards. The device enables line cards with high-density switches based on 25Gbps interfaces to support two times the density of 10 and 40Gbps ports; and

· MSH321, a derivative Multi-Link Gearbox built into a highly compact package and optimized layout to support the MLG function in module and compact daughter card applications.

While we have a robust pipeline of design win opportunities, to date, less than 10% of our design wins claimed are for our LineSpeed products, and we have notified these customers that we do not intend to support these products going forward.

IP Licensing and Distribution

Historically, we have offered our memory and I/O technologies on a worldwide basis to semiconductor companies, electronic product manufacturers, foundries, intellectual property companies and design companies through product development, technology licensing and joint marketing relationships. We licensed our IP technology to semiconductor companies who incorporated our technology into ICs that they sold to their customers. As a result of the change in our corporate strategy, since early 2012, our IP licensing activities have been limited, and we expect this to continue. However, for the nine months ended September 30, 2017, 7% of our total revenues were generated from royalties related to our existing licensing arrangements, as we continue to collect royalties from 1T-SRAM licensees. Licensing and royalty revenues have been declining since 2010, and we expect continued decline in 2018.

Research and Development

Our ability to compete in the future depends on successfully improving our technology to meet the market's increasing demand for higher performance and lower cost requirements. We have assembled a team of highly skilled engineers whose activities are focused on developing higher density, higher bandwidth, higher speed and lower cost next generation IC products. Development of our IC products requires specialized chip design and product engineers, as well as significant fabrication and testing costs, including mask costs, as we bring these products to market. We expect our significant future research and development activities to include:

- · designing next generation ICs with larger memory blocks and higher-speed SerDes;
- · developing versions of our Bandwidth Engine ICs with alternative features, such as lower-speed SerDes, increased chip-level intelligence or smaller memory blocks to allow us to serve a broader range of applications and system requirements;
- · developing derivative versions of our LineSpeed ICs to meet customer demands; and
- · developing new products that can leverage our proprietary IP portfolio and expand our market opportunity. No development efforts are being dedicated to creating new or enhanced technology solely for use in licensing offerings.

Sales and Marketing

We believe that networking and communications systems OEMs typically prefer to extend the use of traditional memory solutions and their parallel interfaces, despite performance and costs challenges and are reluctant to change their technology platforms and adopt new designs and technologies, such as serial interfaces, which are an integral part of our product solutions. Therefore, our principal selling and marketing activities to date have been focused on persuading these OEMs and key component specialists that our solutions provide critical performance advantages, as well as on securing design wins with them.

Our sales and marketing personnel are located in the United States, Japan and China. In addition to our direct sales team, we sell through sales representatives and distributors in the United States and Asia. We also have multiple applications engineers who support our customer engagements and work closely with our engineering team on product definition. For our products, our applications engineers must engage with the customers' system architects and designers to propose our IC and IP solutions such as the GCI Interface, to address their systems challenges.

In the markets we serve, the time from initial customer engagement to design win to production volume shipments can range from 18-36 months. Networking and communications systems can have a product life from a few years to over 10 years once a product like ours has been designed into the system.

Our revenue has been highly concentrated, with a few customers accounting for a significant percentage of our total revenue. For the year ended December 31, 2016, Alcatel-Lucent, Kogent, Inc., our Japanese IC distributor and Taiwan Semiconductor Manufacturing Co., Ltd., or TSMC, represented 47%, 21% and 13% of total revenue, respectively. For the year ended December 31, 2015, Alcatel-Lucent, TSMC and Kogent, Inc. represented 34%, 31% and 12% of total revenue, respectively. For the year ended December 31, 2014, TSMC, Kogent, Inc. and Broadcom Ltd. represented 34%, 31% and 11% of total revenue, respectively.

Customers in North America accounted for 63%, 51% and 28% of our revenues for the years ended December 31, 2016, 2015 and 2014, respectively. Customers in Japan accounted for 22%, 15% and 36% of our revenues for the years ended December 31, 2016, 2015 and 2014, respectively. Customers in Taiwan accounted for 13%, 32% and 35% of our revenues for the years ended December 31, 2016, 2015 and 2014, respectively. Our remaining revenues were primarily from customers in the rest of Asia and in Europe.

Intellectual Property

We regard our patents, copyrights, trademarks, trade secrets and similar intellectual property as critical to our success, and rely on a combination of patent, trademark, copyright, and trade secret laws to protect our proprietary rights.

As of December 31, 2017, we held 69 U.S. and 38 foreign patents on various aspects of our technology, with expiration dates ranging from 2018 to 2035. We also held 10 pending patent applications in the U.S. and abroad. There can be no assurance that others will not independently develop or patent similar or competing technology or design around any patents that may be issued to us, or that we will be able to successfully enforce our patents against infringement by others.

In December 2011, we sold 43 United States and 30 related foreign memory technology patents for \$35 million in cash pursuant to a patent purchase agreement. Under the agreement, we retained a license to all of the sold patents that is unlimited with respect to our development, manufacturing and distribution of our Bandwidth Engine IC product line and any other proprietary products that we develop as long as they are not DRAM ICs. We also retained the rights necessary to renew existing 1T-SRAM licenses and to grant licenses similar in scope to identified foundries. We also retained rights to grant licenses for our second source purposes, to enable certain kinds of technology development and, to a limited extent, for certain ASIC products that incorporate one of our technology macros. However, the patent purchase agreement limits our rights to grant licenses under the sold patents outside the scope of our retained license and, in particular, limits the number of future licenses of 1T-SRAM memory technology that we can grant to developers of SoCs, which used to be the principal focus of our 1T-SRAM licensing activities.

The semiconductor industry is characterized by frequent litigation regarding patent and other intellectual property rights. Our licensees or we might, from time to time, receive notice of claims that we have infringed patents or other intellectual property rights owned by others. Our successful protection of our patents and other intellectual property rights and our ability to make, use, import, offer to sell, and sell products free from the intellectual property rights of

others are subject to a number of factors, particularly those described in Part I, Item 1A, "Risk Factors."

Competition

The markets for our products are highly competitive. We believe that the principal competitive factors are:

- · processing speed and performance;
- · density and cost;
- · power consumption;
- · reliability;
- · interface requirements;
- · ease with which technology can be customized for and incorporated into customers' products; and
- · level of technical support provided.

We believe that our products compete favorably with respect to each of these criteria. Our proprietary 1T-SRAM embedded memory and high-speed serial I/O IP can provide our Bandwidth Engine ICs with a competitive advantage over alternative devices. Alternative solutions are either DRAM or SRAM-based and can support either the memory size or speed requirements of high-performance networking systems, but generally not both. DRAM solutions provide a significant amount of memory at competitive cost, but DRAM solutions do not have the required fast access and cycle times to enable high-performance. The DRAM solutions currently used in networking systems include RLDRAM from Micron Technology, Inc., or Micron, and Integrated Silicon Solutions, Inc., LLDRAM from Renesas and DDR from Samsung Electronics Co., Ltd., Micron and others. In addition, Micron has a hybrid memory cube DRAM product, which consists of multiple DRAMs connected with a serial interface. SRAM solutions can meet high-speed performance requirements, but often lack adequate memory size. The SRAM solutions currently used in networking systems primarily include QDR or similar SRAM products from Cypress Semiconductor Corporation and GSI Technology, Inc. The majority of the currently available SRAM and DRAM solutions use a parallel, rather than a serial I/O. To offset these drawbacks, system designers generally must use more discrete memory ICs, resulting in higher power consumption and greater utilization of space on the line card.

Our competitors include established semiconductor companies with significantly longer operating histories, greater name recognition and reputation, large customer bases, dedicated manufacturing facilities and greater financial, technical, sales and marketing resources. This may allow them to respond more quickly than us to new or emerging technologies or changes in customer requirements. Many of our competitors also have significant influence in the semiconductor industry. They may be able to introduce new technologies or devote greater resources to the development, marketing and sales of their products than we can. Furthermore, in the event of a manufacturing capacity shortage, these competitors may be able to manufacture products when we are unable to do so.

Our Bandwidth Engine ICs compete with embedded memory solutions, stand-alone memory ICs, including both DRAM and SRAM ICs, and ASICs designed by customers in-house to meet their system requirements. Our prospective customers may be unwilling to adopt and design-in our ICs due to the uncertainties and risks surrounding designing a new IC into their systems and relying on a supplier that has limited history of manufacturing such ICs. In addition, Bandwidth Engine ICs require the customer and its other IC suppliers to implement our chip-to-chip communication protocol, the GCI interface. These parties may be unwilling to do this if they believe it could adversely impact their own future product developments or competitive advantages, or, if they believe it might complicate their development process or increase the cost of their products. In order to remain competitive, we believe we must provide unparalleled memory IC solutions with the highest bandwidth capability for our target markets, which solutions are engineered and built for high-reliability carrier and enterprise applications.

Manufacturing

We depend on third-party vendors to manufacture, package, assemble and test our IC products, as we do not own or operate a semiconductor fabrication, packaging or production testing facility for boards and system assembly. By outsourcing manufacturing, we are able to avoid the high cost associated with owning and operating our own facilities, allowing us to focus our efforts on the design and marketing of our products.

We perform an ongoing review of product manufacturing and testing processes. Our IC products are subjected to extensive testing to assess whether their performance meets design specifications. Our test vendors provide us with immediate test data and the ability to generate characterization reports that are made available to our customers. We have achieved ISO 9001:2008 certification, and all of our manufacturing vendors have also achieved ISO 9001 certification.

Employees

As of December 31, 2017, we had 24 employees located in the United States, consisting of 10 in research and development and manufacturing operations and 14 in sales, general and administrative.

Available Information

We were founded in 1991 and reincorporated in Delaware in September 2000. Our website address is www.mosys.com. The information in our website is not incorporated by reference into this report. Through a link on the Investor section of our website, we make available our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and any amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as soon as reasonably practicable after they are filed with, or furnished to, the Securities and Exchange Commission, or SEC. You can also read and obtain copies of any materials we file with the SEC at the SEC's Public Reference Room at 450 Fifth Street, NW, Washington, DC 20549. You can obtain additional information about the operation of the Public Reference Room by calling the SEC at 1.800.SEC.0330. In addition, the SEC maintains a website (www.sec.gov) that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC, including us.

Properties

Our principal administrative, sales, marketing, operations and research and development functions are located in a leased facility in San Jose, California. We currently occupy approximately 10,000 square feet of space in the San Jose facility, the lease for which extends through November 2020. We believe that our existing facilities are adequate to meet our current needs.

Legal Proceedings

We are not a party to any material legal proceeding which could have a material adverse effect on our consolidated financial position or results of operations. From time to time, we may be subject to legal proceedings and claims in the ordinary course of business. These claims, even if not meritorious, could result in the expenditure of significant financial resources and diversion of management efforts.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This Management's Discussion and Analysis of Financial Condition and Results of Operations should be read in conjunction with the accompanying consolidated financial statements and notes included in this prospectus.

Overview

Our strategy and primary business objective is to become a fabless semiconductor company focused on the development and sale of integrated circuits, or ICs, for the high-speed networking, communications, storage and data

center markets. Our solutions deliver time-to-market, performance, power, area and economic benefits for system original equipment manufacturers, or OEMs. We have developed two families of ICs under the Bandwidth Engine® and LineSpeedTM product names. Bandwidth Engine ICs combine our proprietary 1T-SRAM® high-density embedded memory, integrated macro functions and high-speed serial interface, or SerDes, I/O, with our intelligent access technology and a highly efficient interface protocol. The LineSpeed IC product line, which was announced in March 2013, is comprised of non-memory, high-speed SerDes I/O devices with clock data recovery, gearbox and retimer functionality, which convert lanes of data received on line cards or by optical modules into different configurations and/or ensure signal integrity. In the quarter ended September 30, 2017, we notified our customers that we intend to discontinue our LineSpeed IC product line. We are currently supporting existing LineSpeed IC customers and accepting last-time product orders. Going forward, we expect to focus all of our efforts on our Bandwidth Engine IC product line. Historically, our primary business was the design, development, marketing, sale and support of differentiated intellectual property, or IP, including embedded memory and high-speed parallel and SerDes I/O used in advanced systems-on-chips, or SoCs. Our future success and ability to achieve and maintain profitability are dependent on the marketing and sales of our IC products into networking, communications and other markets requiring high-bandwidth memory access.

Historically, our primary business was the design, development, marketing, sale and support of differentiated intellectual property, or IP, including embedded memory and high-speed parallel and SerDes I/O used in advanced systems-on-chips, or SoCs. Currently, we are focused on developing differentiated IP-rich IC products and are dedicating all our research and development, marketing and sales budget to these IC products.

Our future success and ability to achieve and maintain profitability are dependent on the marketing and sales of our IC products into networking, communications and other markets requiring high-bandwidth memory access.

We incurred net losses of approximately \$10.1 million and \$17.6 million for the nine months ended September 30, 2017 and 2016. We incurred net losses of approximately \$32.0 million and \$31.5 million for the years ended December 31, 2016 and 2015, respectively, and had an accumulated deficit of approximately \$214.0 million as of December 31, 2016. These and prior year losses have resulted in significant negative cash flows for almost a decade and have necessitated that we raise substantial amounts of additional capital during this period. To date, we have primarily financed our operations through multiple offerings of common stock to investors and affiliates, as well as asset sale transactions. In March 2016, we entered into a 10% Senior Secured Convertible Note Purchase Agreement with the purchasers of \$8 million principal amount of 10% Senior Secured Convertible Notes due August 15, 2018 (the Notes), at par, in a private placement transaction. The Notes bear interest at the annual rate of 10%. Accrued interest is payable semi-annually in cash or in kind through the issuance of identical new Notes, or with a combination of the two, at our option. Through February 2017, we have made the interest payments in-kind through the issuance of additional notes totaling approximately \$0.8 million. Further, the Notes restrict our ability to incur any indebtedness for borrowed money, unless such indebtedness by its terms is expressly subordinated to the Notes in right of payment and to the security interest of the Note holder(s) in respect to the priority and enforcement of any security interest in property of the Company securing such new debt; provided that the Note holder(s) security interest and cash payment rights under the Notes shall be subordinate to a maximum of \$5 million of indebtedness for a secured accounts receivable line of credit facility under certain conditions. (See Note No. 11 to our Annual consolidated financial statements, Convertible Notes)

We expect to continue to incur operating losses for the foreseeable future as we secure customers for and continues to invest in the commercialization of our IC products. Due to the strong commitment of our resources to research and development and expansion of its product offerings to customers, we will need to increase revenues substantially beyond levels that we have attained in the past in order to generate sustainable operating profit and sufficient cash flows to continue doing business without raising additional capital from time to time. As a result of our expected operating losses and cash burn for the foreseeable future, recurring losses from operations, and the need to repay the

Notes and accrued interest in 2018, if we are unable to raise sufficient capital through additional debt or equity arrangements, there will be uncertainty regarding our ability to maintain liquidity sufficient to operate our business effectively, which raises substantial doubt as to our ability to continue as a going concern within one year from the date of issuance of our consolidated financial statements. The consolidated financial statements do not include any adjustments that might result from this uncertainty. There can be no assurance that such additional capital, whether in the form of debt or equity financing, will be sufficient or available and, if available, that such capital will be offered on terms and conditions acceptable to us. We are exploring various alternatives, and expect to implement cost reductions to successfully sustain

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the business. If we are unsuccessful in these efforts, we will need to implement significant cost reduction strategies that could affect our near- and long-term business plan. These efforts may include, but are not limited to: reducing headcount and curtailing business activities, especially around new product development.

Critical Accounting Policies and Use of Estimates

Our consolidated financial statements are prepared in conformity with accounting principles generally accepted in the United States of America. Note 1 to the consolidated financial statements describes the significant accounting policies and methods used in the preparation of our consolidated financial statements.

We have identified the accounting policies below as some of the more critical to our business and the understanding of our results of operations. These policies may involve estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses. Although we believe our judgments and estimates are appropriate, actual future results may differ from our estimates, and if different assumptions or conditions were to prevail, the results could be materially different from our reported results.

Revenue Recognition

General

We generate revenue from the sales of IC products and licensing of our IP. We recognize revenue when persuasive evidence of an arrangement exists, delivery or performance has occurred, the sales price is fixed or determinable, and collectibility is reasonably assured. Evidence of an arrangement generally consists of signed agreements or customer purchase orders.

IC Products

Products are sold both directly to customers, as well as through distributors. Revenue from sales directly to customers is generally recognized at the time of shipment. We may record an estimated allowance, at the time of shipment, for future returns and other charges against revenue consistent with the terms of sale. IC product revenue and costs relating to sales made through distributors with rights of return or stock rotation are generally deferred until the distributors sell the product to end customers due to our inability to estimate future returns and credits to be issued. Distributors are generally able to return up to 10% of their purchases of slow, non-moving or obsolete inventory for credit every six months. At the time of shipment to distributors, an accounts receivable for the selling price is recorded, as there is a legally enforceable right to receive payment, and inventory is relieved, as legal title to the inventory is transferred upon shipment. Revenues are recognized upon receiving notification from the distributors that products have been sold to end customers. Distributors provide information regarding products and quantity, end customer shipments and remaining inventory on hand. The associated deferred margin is included in the accrued expenses and other line item in the consolidated balance sheets.

Royalty

Royalty revenue represents amounts earned under provisions in our memory licensing agreements that require our licensees to report royalties and make payments at a stated rate based on actual units manufactured or sold by licensees for products that include our memory IP. Our license agreements require the licensee to report the manufacture or sale of products that include our technology after the end of the quarter in which the sale or manufacture occurs. We recognize royalties in the quarter in which we receive the licensee's report. The timing and level of royalties are difficult to predict, and depend on the licensee's ability to market, produce and sell products incorporating our technology.

Licensing

Licensing revenue consists of fees earned from license agreements, development services and support and maintenance. For stand-alone license agreements or license deliverables in multi-deliverable arrangements that do not require significant development, modification or customization, revenue is recognized when all revenue recognition

criteria have been met. Delivery of the licensed technology is typically the final revenue recognition criterion met, at which time revenue is recognized. If any of the criteria are not met, revenue recognition is deferred until such time as all criteria have been met. Support and maintenance revenue is recognized ratably over the period during which the obligation exists, typically 12 months.

Fair Value Measurements of Financial Instruments

We measure the fair value of financial instruments using a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value into three broad levels, as follows:

Level 1—Inputs used to measure fair value are unadjusted quoted prices that are available in active markets for the identical assets or liabilities as of the reporting date.

Level 2—Pricing is provided by third party sources of market information obtained from investment advisors rather than models. We do not adjust for or apply any additional assumptions or estimates to the pricing information we receive from advisors. Our Level 2 securities include cash equivalents and available-for-sale securities, which consisted primarily of corporate debt, and government agency and municipal debt securities from issuers with high quality credit ratings. Our investment advisors obtain pricing data from independent sources, such as Standard & Poor's, Bloomberg and Interactive Data Corporation, and rely on comparable pricing of other securities because the Level 2 securities we hold are not actively traded and have fewer observable transactions. We consider this the most reliable information available for the valuation of the securities.

Level 3—Unobservable inputs that are supported by little or no market activity and reflect the use of significant management judgment are used to measure fair value. These values are generally determined using pricing models for which the assumptions utilize management's estimates of market participant assumptions. The determination of fair value for Level 3 investments and other financial instruments involves the most management judgment and subjectivity.

Valuation of long-lived Assets

We evaluate our long-lived assets for impairment at least annually, or more frequently when a triggering event is deemed to have occurred. This assessment is subjective in nature and requires significant management judgment to forecast future operating results, projected cash flows and current period market capitalization levels. If our estimates and assumptions change in the future, it could result in a material write-down of long-lived assets. We amortize our finite-lived intangible assets, such as developed technology and patent license, on a straight-line basis over their estimated useful lives of three to seven years. We recognize an impairment charge as the difference between the net book value of such assets and the fair value of the assets on the measurement date.

Goodwill

We review goodwill for impairment on an annual basis or whenever events or changes in circumstances indicate the carrying value of an asset may not be recoverable. We first assess qualitative factors to determine whether it is more-likely-than-not that the fair value of the reporting unit is less than the carrying amount as a basis for determining whether it is necessary to perform the two-step impairment test. If the qualitative assessment warrants further analysis, we compare the fair value of the reporting unit to its carrying value. The fair value of the reporting unit is determined using the market approach. If the fair value of the reporting unit exceeds the carrying value of net assets of the reporting unit, goodwill is not impaired, and no further testing is performed. If the carrying value of the reporting unit's goodwill exceeds its implied fair value, then we must record an impairment charge equal to the difference. We have determined that we have a single reporting unit for purposes of performing the goodwill impairment test. We use the

market approach to assess impairment in the second step of the analysis. We performed the annual impairment test in September 2017, and the test did not indicate impairment of goodwill.

During the fourth quarter of 2016, we concluded a triggering event had occurred due to a sustained decrease in the price per share of our common stock and related reduced market capitalization. We performed the first step of the

impairment test to identify potential goodwill impairment, and the test results indicated the goodwill carrying value was greater than its fair value. We then performed a step-two analysis to compare the carrying amount of goodwill to the implied fair value of the goodwill, and we determined the estimated fair values of the assets and liabilities of its single reporting unit. The fair values of the assets and liabilities identified in the impairment test were determined using the combination of the income approach and the market approach. The implied fair value of goodwill was measured as the excess of the fair value of our single reporting unit over the fair value of its assets and liabilities. As a result of the step-two test, we recorded a non-cash impairment charge of \$9,858,000 during the fourth quarter of 2016.

Deferred tax valuation allowance

When we prepare our consolidated financial statements, we estimate our income tax liability for each of the various jurisdictions where we conduct business. This requires us to estimate our actual current tax exposure and to assess temporary differences that result from differing treatment of certain items for tax and accounting purposes. These differences result in deferred tax assets, which we show on our consolidated balance sheet under the category of other current assets. The net deferred tax assets are reduced by a valuation allowance if, based upon weighted available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized. We must make significant judgments to determine our provision for income taxes, our deferred tax assets and liabilities and any valuation allowance to be recorded against our net deferred tax asset.

Stock-based compensation

We recognize stock-based compensation for equity awards on a straight-line basis over the requisite service period, usually the vesting period, based on the grant-date fair value. We estimate the value of employee stock options on the date of grant using the Black-Scholes model. The determination of fair value of share-based payment awards on the date of grant using an option-pricing model is affected by our stock price, as well as assumptions regarding a number of highly complex and subjective variables. These variables include, but are not limited to, the expected stock price volatility over the term of the awards, and actual and projected employee stock option exercise behaviors. The expected term of options granted is derived from historical data on employee exercises and post-vesting employment termination behavior. The expected volatility is based on the historical volatility of our stock price.

Results of Operations for Three and Nine Months

Net Revenue.

septemeer 50,		Change
2017	2016	2016 to 2017
(dollar amou	ints in thousa	ands)
\$ 2,231	\$ 1,205	\$ 1,026 85 %
91 %	77 %	%
\$ 4,297	\$ 3,612	\$ 685 19 %
85 %	78 %	lo de la companya de
	2017 (dollar amou \$ 2,231 91 % \$ 4,297	2017 2016 (dollar amounts in thousa \$ 2,231 \$ 1,205 91 % 77 % \$ 4,297 \$ 3,612

September 30.

Change

Product revenue increased for the three and nine months ended September 30, 2017 compared with the same periods of 2016 primarily due to higher shipment volumes of our Bandwidth Engine products.

	Septembe	er 30,	Change		
	2017 2016		2016 to 201	.7	
	(dollar ar	nounts in th	ousands)		
Royalty and other -three months ended	\$ 222	\$ 368	\$ (146)	(40)	%
Percentage of total net revenue	9 %	23	%		
Royalty and other -nine months ended	\$ 752	\$ 1,045	\$ (293)	(28)	%
Percentage of total net revenue	15 %	22	%		

Royalty revenue includes revenues generated from licensing agreements. Royalty revenue decreased due to a decrease in shipment volumes by licensees whose products incorporate our licensed IP.

Cost of Net Revenue and Gross Profit.

	September	r 30,	Change							
	2017	2016	2016 to 20	17						
	(dollar amounts in thousands)									
Cost of net revenue -three months ended	\$ 1,256	\$ 658	\$ 598	91	%					
Percentage of total net revenue	51	% 42	%							
Cost of net revenue -nine months ended	\$ 2,590	\$ 2,484	\$ 106	4	%					
Percentage of total net revenue	51	% 53	%							

	Septembe	er 30,	Change								
	2017	2016	2016 to 20	017							
	(dollar amounts in thousands)										
Gross profit -three months ended	\$ 1,197	\$ 915	\$ 282	31 %							
Percentage of total net revenue	49	% 58	%								
Gross profit -nine months ended	\$ 2,459	\$ 2,173	\$ 286	13 %							
Percentage of total net revenue	49	% 47	%								

Cost of net revenue is primarily comprised of direct and indirect costs related to the sale of IC products.

Cost of net revenue increased for the three and nine months ended September 30, 2017 compared with the same periods of 2016 primarily due to increased shipment volumes and reduced product manufacturing costs.

Gross profit increased for the three and nine months ended September 30, 2017, compared with the same periods of 2016, primarily due to the increase in gross profit from our product sales due to increased shipment volumes and reduced manufacturing costs, partially offset by the decrease in royalty revenue which has no corresponding costs.

Research and Development.

	September 30,	Change	
	2017 2016	2016 to 2017	
	(dollar amounts in thou	ısands)	
Research and development -three months ended	\$ 1,436 \$ 3,927	\$ (2,491)	(63) %
Percentage of total net revenue	59 % 250	%	
Research and development -nine months ended	\$ 7,234 \$ 14,043	\$ (6,809)	(48) %
Percentage of total net revenue	143 % 302	%	

Our research and development expenses include costs related to the development of our IC products and amortization of intangible assets. We expense research and development costs as they are incurred.

The decrease for the three and nine months ended September 30, 2017 compared with the same period in 2016 was primarily due to reduced personnel, product development and qualification, stock-based compensation and computer-aided design software expenses.

We expect research and development expenses to continue to decrease significantly in future periods, as compared with 2016, due primarily to reductions in personnel as a result of our restructuring activity in the second quarter of 2017 (discussed in Note 10 to the Condensed Consolidated Financial Statements for the period ended September 30, 2017), as we continue to primarily focus our resources on producing and selling our existing products, and have substantially curtailed new product development.

Research and development expenses included stock-based compensation expense of \$0.1 million and \$0.5 million for the three months ended September 30, 2017 and 2016, respectively. Research and development expenses included stock-based compensation expense of \$0.3 million and \$2.2 million for the nine months ended September 30, 2017 and 2016, respectively.

Selling, General and Administrative.

	September 3	30,	Change		
	2017	2016	2016 to 20	17	
	(dollar amou	unts in thou	ısands)		
SG&A -three months ended	\$ 1,244	\$ 1,450	\$ (206)	(14)	%
Percentage of total net revenue	51 %	92	%		
SG&A -nine months ended	\$ 3,659	\$ 4,543	\$ (884)	(19)	%
Percentage of total net revenue	72 %	98	%		

Selling, general and administrative, or SG&A, expenses consist primarily of personnel and related overhead costs for sales, marketing, finance, human resources and general management.

The decrease for the three and nine months ended September 30, 2017 compared with the same periods in 2016 was primarily due to lower compensation costs, including stock-based compensation charges. We expect SG&A expenses to decrease slightly in future periods, as compared with 2016, due to the effects of our restructuring activity in 2017.

Selling, general and administrative expenses included stock-based compensation expense of \$0.1 million and \$0.2 million for the three months ended September 30, 2017 and 2016, respectively, and \$0.2 million and \$0.5 million for the nine months ended September 30, 2017 and 2016, respectively.

Restructuring Charges.

	September	30,	Change	
	2017	2016	2016 to 2	2017
	(dollar amo	ounts in thou	sands)	
Restructuring -three months ended	\$ 50	\$ —	\$ 50	— %
Percentage of total net revenue	2 %	, — %	ó	
Restructuring -nine months ended	\$ 1,052	\$ 676	\$ 376	56 %

Percentage of total net revenue 21 % 15 %

In the first quarter of 2016, we recorded restructuring charges attributable to a reduction in force in the United States and the closure of operations at our Indian subsidiary. In the second and third quarters of 2017, we recorded restructuring charges attributable to a reduction in our workforce and associated operating expenses as well for future contractual obligations under computer-aided software design licenses. We expect to incur future additional charges in the quarter ending December 31, 2017 related to the 2017 restructuring activity of up to \$0.3 million, primarily due to lease termination activity.

Interest expense and other income, net

	September	30,	Change	
	2017	2016	2016 to 2	017
	(dollar amo	ounts in thou	sands)	
Interest expense and other income (expense), net — three months ended	\$ (206)	\$ (219)	\$ 13	6 %
Percentage of total net revenue	(8) %	(14) %		
Interest expense and other income (expense), net — nine months ended	\$ (640)	\$ (421)	\$ (219)	(52)%
Percentage of total net revenue	(13) %	(9) %		

Interest expense and other income (expense), net primarily consisted of interest expense on our senior secured convertible notes, partially offset by interest income on our investments, as well as foreign currency transaction activity and other non-operating items. We paid the accumulated interest for each of the six-month periods ended February 15, 2017 and August 15, 2017 in-kind through the issuance of identical senior secured convertible notes.

Liquidity and Capital Resources; Changes in Financial Condition

Cash Flows

As of September 30, 2017, we had cash and cash equivalents of \$2.8 million and had a working capital deficit of \$6.2 million, as our senior secured notes of \$9.2 million are payable in full in August 2018. Our primary capital requirements are to fund working capital, including development and distribution of our IC products.

Net cash used in operating activities was \$9.0 million for the first nine months of 2017, which primarily resulted from our net loss of \$10.1 million, partially offset by \$1.1 million in net reductions in assets and liabilities and by non-cash charges, including stock-based compensation expense of \$0.6 million and depreciation and amortization expenses of \$0.7 million. The changes in assets and liabilities primarily related to the timing of customer collections and inventory prepayments, accrued restructuring liabilities, net change in liabilities, property and equipment and intangibles.

Net cash used in operating activities was \$15.0 million for the first nine months of 2016, which primarily resulted from our net loss of \$17.6 million, partially offset by non-cash charges, including stock-based compensation expense of \$1.8 million and depreciation and amortization expenses of \$0.9 million.

Net cash provided by investing activities was \$1.0 million for the first nine months of 2017, and included net amounts transferred to cash and cash equivalents from investments of \$1.0 million, which did not impact our liquidity.

Net cash provided by investing activities was \$11.2 million for the first nine months of 2016, and included net amounts transferred to cash and cash equivalents from investments of \$11.9 million, which did not impact our liquidity, and \$0.6 million for purchases of fixed assets.

Net cash provided by financing activities for the first nine months of 2017 consisted primarily of receipts from the sale of common stock and warrants to purchase common stock in an equity offering completed in July 2017.

Our proceeds from financing activities for the first nine months of 2016 consisted primarily of net proceeds received from the issuance of senior secured convertible notes.

Our future liquidity and capital requirements are expected to vary from quarter to quarter, depending on numerous factors, including:

- · level of revenue;
- · cost, timing and success of technology development efforts;

- · inventory levels, timing of product shipments and length of billing and collection cycles;
- · fabrication costs, including mask costs, of our ICs, currently under development;
- · variations in manufacturing yields, materials costs and other manufacturing risks;
- · costs of acquiring other businesses and integrating the acquired operations;
- · profitability of our business; and
- · whether interest payments on the Notes are paid in cash or, at our election, in kind through the issuance of new Notes with identical terms for the accrued interest.

Results of Operations for the Years Ended 2016, 2015 and 2014

Net Revenue

	Year ende	Year-Over-Year Change											
	2016 2015 2014						2015 to 20	20	2014 to 2015				
	(dollar amounts in thousands)												
Product	\$ 4,604		\$ 2,400		\$ 2,280		\$ 2,204	92	%	\$	120	5	%
Percentage of total net revenue	76	%	55	%	42	%							

Product revenue increased in 2016 and 2015 due to increased volume of shipments for our ICs, mainly Bandwidth Engine, as additional customer design wins commenced production and we gained more customers. In 2016 and 2015, our Bandwidth Engine 2 IC products were the primary source of IC revenue, while in 2014, our Bandwidth Engine 1 IC products accounted for most of our IC revenue. In 2014, we recognized \$0.3 million of revenue from the reversal of sales return reserves recorded in prior periods following the completion of system-level tests in the field by customers, which reduced our expected risk of returns. We expect our product revenues to increase in the future in absolute dollars, as we expect additional customer design wins to commence their production ramps.

	Year end	led I	December	31,		Year-Over-Year Change							
	2016	2015			2014	2015 to 2016			2014 to 2015				
	(dollar amounts in thousands)												
Royalty and other	\$ 1,420		\$ 1,990		\$ 3,100		\$ (570)	(29) %	\$ (1,110)	(36) %			
Percentage of total net													
revenue	24	%	45	%	58	%							

Royalty and other revenue is primarily comprised of revenue generated from licensing agreements. The decrease from 2015 to 2016 was primarily due to a decrease in shipment volumes by licensees whose products incorporate our licensed IP. The decrease from 2014 to 2015 was primarily due to a decrease in shipment volumes by licensees, as well as a decrease in revenue recognized from residual licensing agreements entered into in 2011 and prior years. We expect royalty and other revenue to decline in 2017, as we expect a decline in shipments of units incorporating our technology by licensees, as their products approach their end of life.

Cost of Net Revenue and Gross Profit

	Year end	led I	December	31,	Year-Over-Year Change						
	2016 2015 2014						2015 to	2016	2014 t	o 2015	
(dollar amounts in thousands)											
Cost of net revenue	\$ 3,075		\$ 2,474		\$ 2,318		\$ 601	24 %	\$ 156	7 %	
Percentage of total net revenue	51	%	56	%	43	%					

	Year ended	d December 3	1,	Year-Over-Year Change									
	2016	2015	2014	2015 to 2016	2014 to 2015								
	(dollar am	ounts in thous	ands)										
Gross profit	\$ 2,949	\$ 1,916	\$ 3,062	\$ 1,033 54 %	\$ (1,146) (37) %								
Gross margin	49 9	% 44 9	% 57 %										

In each of 2016, 2015 and 2014, cost of net revenue consisted of direct and indirect costs related to the sale of IC products.

Cost of net revenue increased in 2016 and 2015, primarily due to the increase in material and production costs related to our increased IC shipments and non-recurring inventory reserves recorded in 2015. We expect the cost of net revenue to increase in the future in absolute dollars, because we anticipate an increase in sales of our IC products.

Gross profit increased from 2015 to 2016, primarily due to the increase in IC shipments, partially offset by the decrease in our royalty revenue, which has no associated costs. Gross profit decreased from 2014 to 2015 primarily due to the decrease in our royalty revenue, which has no associated costs, partially offset by an increase in IC shipments with lower associated costs. The deferred margin recognized from the reversal of sales return reserves in 2014 and 2015 was not material.

Research and Development

	Year ended December 31,									Year-Over-Year Change						
	2	016		20	015		2	014		2015 to 2016			2014 to 2015			
	(0	(dollar amounts in thousands)														
Research and development Percentage of total net	\$	18,086		\$	27,108		\$	29,261		\$ (9,022)	(33) %	, 9	\$ (2,153)	(7) %		
revenue		300	%		617	%		544	%							

Our research and development expenses include costs related to the development of our IC products and amortization of intangible assets. We expense research and development costs as they are incurred.

The \$9.0 million decrease in 2016 over the prior year was primarily due to a decrease in salaries and related expenses, non-recurring mask tooling costs for our Bandwidth Engine 3 product incurred in 2015, a decrease in computer-aided software license fees, and a decrease in stock-based compensation charges.

The \$2.2 million decrease in 2015 over the prior year was primarily due to decreases in consulting expenses, computer-aided software license fees, amortization of intangibles and stock-based compensation charges, partially offset by an increase in mask tooling costs, primarily for our Bandwidth Engine 3 product.

Research and development expenses included stock-based compensation expense of \$1.6 million, \$2.7 million and \$3.4 million for the years ended December 31, 2016, 2015 and 2014, respectively. We expect that research and development expenses will decrease in absolute dollars due to reduced headcount, including the full-year effects of a reduction-in-force initiated in the first quarter of 2016, a reduced emphasis on new product development and

reductions in computer-aided software license fees.

Selling, General and Administrative

	2016	December 31, 2015 2014 bunts in thousands)	Year-Over-Year Ch 2015 to 2016	2014 to 2015
Selling, general and administrative Percentage of total net	\$ 5,693	\$ 6,299 \$ 6,5	19 \$ (606) (10) 9	% \$ (220) (3) %
revenue	95 %	143 % 121	l %	
40				

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Selling, general and administrative expenses consist primarily of personnel and related overhead costs for sales, marketing, finance, human resources and general management.

Selling, general and administrative expenses decreased \$0.6 million for 2016, compared with the prior year, primarily as a result of a decrease in stock-based compensation charges and salaries and related expenses.

Selling, general and administrative expenses decreased \$0.2 million for 2015, compared with the prior year, primarily as a result of a decrease in stock-based compensation charges.

Selling, general and administrative expenses included stock-based compensation expense of \$0.6 million, \$0.9 million and \$1.2 million for the years ended December 31, 2016, 2015 and 2014, respectively.

We expect total selling, general and administrative expenses to decrease slightly in absolute dollars in 2017.

Impairment of Goodwill

	Year ended December 31,			Year-Over-Year Change				
	2016 2015 2014		2015 to 2016		2014 to 2015			
	(dollar amo	unts in	thousar	nds)				
Impairment of goodwill — Year Ended	\$ 9,858	\$ -	- \$		\$ 9,858	100 %	\$ —	%
Percentage of total net revenue	164 %	-	_%	%				

In the fourth quarter of 2016, we recorded a goodwill impairment charge.

Restructuring Charges

	Year ended December 31,			Year-Over-Year Change				
	2016	2015	2014	2015 to 2016	2014 to 2015			
	(dollar an	ounts in th	ousands)					
Restructuring charges — Year Ended	\$ 676	\$ —	\$ —	\$ 676 100 %	\$ — —%			
Percentage of total net revenue	11 %	—%	—%					

In the first quarter of 2016, we recorded restructuring charges attributable to a reduction in force in the United States and the closure of our operations at our Indian subsidiary.

Interest expense and other income (expense), net

	Year Ended	December	31,	Year-Over-Year Chan	ge
	2016	2015	2014	2015 to 2016	2014 to 2015
	(dollar amou	unts in thou	sands)		
Interest expense and other income					
(expense), net	\$ (639)	\$ 94	\$ 143	\$ (733) (780) %	\$ (49) (34) %
Percentage of total net revenue	(11) %	2 %	3 %		

Interest expense and other income (expense), net primarily consisted of interest expense on our senior secured convertible notes, partially offset by interest income on our investments, as well as foreign currency transaction activity and other non-operating items. We paid the accumulated interest for the period from issuance of the convertible notes through August 15, 2016 in-kind through the issuance of an identical new senior-secured convertible note. On February 15, 2017, we paid the accumulated interest for the period from August 2016 to February 15, 2017 in-kind through the issuance of an identical new senior-secured convertible note.

Income Tax Provision

	Year ended December 31,			Year-Over-Year Change			
	2016	2015	2014	2015 to 2	2016	2014 to 2	.015
	(dollar a	mounts in	thousands)				
Income tax provision	\$ 45	\$ 86	\$ 107	\$ (41)	(48) %	\$ (21)	(20) %
Percentage of total net revenue	1 %	2 %	2 %)			

Our income tax provisions were primarily attributable to taxes on earnings of our foreign subsidiaries and branches.

As of December 31, 2016, we had net operating loss carryforwards of approximately \$184 million for U.S. federal income tax purposes and approximately \$117 million for state income tax purposes that are available to reduce future income tax liabilities to the extent permitted under federal and state income tax laws. These net operating loss carryforwards expire from 2017 to 2036. Utilization of our net operating loss and tax credit carryforwards may be subject to a substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code (IRC); and similar state provisions. Section 382 of the IRC (Section 382) imposes limitations on a corporation's ability to utilize its NOLs, if it experiences an "ownership change." In general terms, an ownership change may result from transactions increasing the ownership percentage of certain stockholders in the stock of the corporation by more than 50% over a three year period. In the event of an ownership change, utilization of the NOLs would be subject to an annual limitation under Section 382 determined by multiplying the value of our common stock at the time of the ownership change by the applicable long-term tax exempt rate. We have not completed a Section 382 study in recent years; however, should a study be completed, certain NOLs may be subject to such limitations. Any future annual limitation may result in the expiration of NOLs before utilization.

In 2017, we anticipate that our effective income tax rate will continue to be less than the federal statutory tax rate because of expected losses.

As of December 31, 2016 and 2015, we had net deferred tax assets of approximately \$89 million and \$80 million, respectively. Because of uncertainties regarding the realization of these deferred tax assets, we had recorded a full valuation allowance as of December 31, 2016 and 2015.

Liquidity and Capital Resources

As of December 31, 2016, we had cash, cash equivalents and short-term investments totaling \$9.8 million compared with a combined balance of \$20.2 million at December 31, 2015. On March 14, 2016, the Company entered into a 10% Senior Secured Convertible Note Purchase Agreement (the "Purchase Agreement") with the purchasers of \$8,000,000 principal amount of 10% Senior Secured Convertible Notes due August 15, 2018 (the "Notes"), at par, in a private placement transaction effected pursuant to an exemption from the registration requirements under the Securities Act of 1933, as amended. The Notes bear interest at the annual rate of 10% and interest is payable semi-annually in cash or in kind through the issuance of identical new Notes, or with a combination of the two, at our option.

In 2016, we used \$17.9 million in operating activities, which primarily resulted from the net loss of \$32.0 million, adjusted for non-cash charges and gains, which included impairment of goodwill of \$9.9 million, stock-based compensation expenses of \$2.2 million, depreciation and amortization expenses of \$1.1 million, accrued interest of \$0.7 million, and changes to operating assets and liabilities of \$0.3 million. The changes in assets and liabilities primarily related to the timing of the collection of receivables from customers and payments to vendors, including

purchases of and increases in inventory.

In 2015, we used \$27.5 million in operating activities, which primarily resulted from the net loss of \$31.5 million, adjusted for non-cash charges and gains, which included stock-based compensation expenses of \$3.7 million and depreciation and amortization expenses of \$0.9 million, and changes to operating assets and liabilities of \$0.6 million. The changes in assets and liabilities primarily related to the timing of the collection of receivables from customers and payments to vendors, including purchases of and increases in inventory.

In 2014, we used \$26.3 million in operating activities, which primarily resulted from the net loss of \$32.7 million, adjusted for non-cash charges and gains, which included stock-based compensation expenses of \$4.6 million and depreciation and amortization expenses of \$1.4 million, and changes to operating assets and liabilities of \$0.3 million. The changes in assets and liabilities primarily related to the payments to vendors, including purchases of inventory.

Our investing activities in 2016 primarily consisted of \$0.6 million expended for purchases of fixed assets. Remaining investing activities consisted of investing our cash in marketable securities, which did not affect our liquidity. Our investing activities in 2015 primarily consisted of \$1.2 million expended for purchases of fixed assets. Remaining investing activities consisted of investing our cash in marketable securities, which did not affect our liquidity. Our investing activities in 2014 primarily consisted of \$0.6 million expended for purchases of fixed assets. Remaining investing activities consisted of investing our cash in marketable securities, which did not affect our liquidity.

Our financing activities in 2016 primarily consisted of \$7.9 million in net proceeds received from the issuance of senior secured convertible notes and \$0.4 million in proceeds purchases of common stock under our employee stock purchase plan. Our financing activities in 2015 primarily consisted of \$21.4 million in net proceeds received from the sale of common stock though a public offering and \$1.8 million in proceeds from the exercise of stock options and purchases of common stock under our employee stock purchase plan. Our financing activities in 2014 primarily consisted of proceeds from the exercise of stock options and sales under our employee stock purchase plan.

Our future liquidity and capital requirements are expected to vary from quarter to quarter, depending on numerous factors, including:

- · level of revenue:
- · cost, timing and success of technology development efforts;
- · inventory levels, timing of product shipments and length of billing and collection cycles;
- · fabrication costs, including mask costs, of our ICs, currently under development;
- · variations in manufacturing yields, materials costs and other manufacturing risks;
- · costs of acquiring other businesses and integrating the acquired operations;
- · profitability of our business; and
- whether interest payments on the Notes are paid in cash or, at our election, in kind through the issuance of new Notes with identical terms for the accrued interest.

Going Concern-Working Capital

We expect our cash expenditures to continue to exceed receipts in 2017, as our revenues will not be sufficient to offset our operating expenses, which include significant research and development expenditures for the expansion and fabrication of our IC products. The consolidated financial statements presented in Part II, Item 15 of this Report have been prepared assuming that we will continue as a going concern, and do not include any adjustments that might result from the outcome of this uncertainty. We have incurred recurring losses from operations, had recurring negative cash flows, and have a significant accumulated deficit. These conditions raise substantial doubt about our ability to continue as a going concern. We are currently seeking additional financing in order to meet our cash requirements for the foreseeable future. We may not be able to obtain additional financing as needed on acceptable terms, or at all, which may require us to reduce our operating costs and other expenditures, including reductions of personnel, salaries and capital expenditures. Alternatively, or in addition to such potential measures, we may elect to implement other cost reduction actions as we may determine are necessary and in our best interests, including the possible sale or cessation of certain of our business

segments. Any such actions undertaken might limit our opportunities to realize plans for revenue growth and we might not be able to reduce our costs in amounts sufficient to achieve break-even or profitable operations.

If we were to raise additional capital through sales of our equity securities, our stockholders would suffer dilution of their equity ownership. If we engage in debt financing, we may be required to accept terms that restrict our ability to incur additional indebtedness, prohibit us from paying dividends, repurchasing our stock or making investments, and force us to maintain specified liquidity or other ratios, any of which could harm our business, operating results and financial condition. If we need additional capital and cannot raise it on acceptable terms, we may not be able to, among other things:

- · develop or enhance our products;
- · continue to expand our product development and sales and marketing organizations;
- · acquire complementary technologies, products or businesses;
- · expand operations, in the United States or internationally;
- · hire, train and retain employees; or
- · respond to competitive pressures or unanticipated working capital requirements.

Our failure to do any of these things could seriously harm our ability to execute our business strategy and may force us to curtail our research and development plans or existing operations.

Disclosures about Contractual Obligations and Commercial Commitments

The impact that our contractual obligations as of September 30, 2017 are expected to have on our liquidity and cash flow in future periods is (in thousands):

	Payment I	Oue by Period			
		Less than			More than
	Total	1 year	1-3 years	3-5 years	5 years
Operating leases	\$ 2,185	\$ 728	\$ 1,457	\$ —	\$ —

Our software licenses related to computer-aided design software.

Off-Balance Sheet Arrangements

We do not maintain any off-balance sheet arrangements or obligations that are reasonably likely to have a material current or future effect on our financial condition, results of operations, liquidity or capital resources.

Indemnifications

In the ordinary course of business, we enter into contractual arrangements under which we may agree to indemnify the counter-party from losses relating to a breach of representations and warranties, a failure to perform certain covenants, or claims and losses arising from certain external events as outlined within the particular contract, which may include, for example, losses arising from litigation or claims relating to past performance. Such indemnification clauses may not be subject to maximum loss clauses. We have also entered into indemnification agreements with our officers and directors. No material amounts related to these indemnifications are reflected in our consolidated financial statements for the years ended December 31, 2016, 2015 or 2014.

DIRECTORS AND EXECUTIVE OFFICERS

The names of our directors and certain information about each of them are set forth below.

Name	Age	Position(s) with the Company
Leonard Perham	74	Chief Executive Officer, President and Director
Stephen L. Domenik(1)(2)	65	Director
Daniel Lewis (1)(2)	68	Director
Daniel O'Neal (1)	46	Director

- (1) Member of Audit Committee
- (2) Member of Compensation Committee

The principal occupations and positions for at least the past five years of our directors are described below. There are no family relationships among any of our directors or executive officers.

Len Perham. Mr. Perham was appointed to be our chief executive officer and president and a member of our board of directors in November 2007. Mr. Perham was one of the original investors in MoSys and initially served on our board of directors from 1991 to 1997. In 2000, Mr. Perham retired from Integrated Device Technology, Inc., where he served as chief executive officer from 1991 to 2000 and as president and a board member from 1986. From March 2000 to February 2012, Mr. Perham served as a member of the board of directors of NetLogic Microsystems, Inc., a fabless semiconductor company, including as chairman for a portion of that time. Mr. Perham also has been a private investor holding officer and director positions with various private companies. Mr. Perham holds a B.S. in electrical engineering from Northeastern University. We believe that Mr. Perham's qualifications to serve as a director include his tenure as our chief executive officer and as a member of the board of directors, during which time he has gained a unique and extensive understanding of our company, our business and our long-term strategy, as well as his experience in the semiconductor industry generally.

Daniel Lewis. Mr. Lewis has served as the managing member and an owner of GMS Manufacturing Solution LLC, which provides engineering services to manufacturing companies, since 2013. From 2001 to 2013, he served as chief executive officer of View Box Group, LLC, which provides management consulting services to small businesses. Prior to 2001, Mr. Lewis previously served as vice president of worldwide sales at both Xicor, Inc. and Integrated Device Technology, Inc. Mr. Lewis has also held various sales and technical positions with Accelerant Networks, Inc. Intel Corporation, Zilog, Inc. and Digital Equipment Corporation. Mr. Lewis holds a B.S. in Electrical Engineering from the University of Michigan.

Daniel O'Neal. Mr. O'Neil has served as a partner at Acme Strategy, LLC, a provider of strategic consulting and advisory services, which he founded, since 2010. From 2008 to 2010, he served as an investment banker at Signal Hill Capital Group LLC. Prior to 2008, Mr. O'Neil held business development and investment banking positions at Energy

Services Group, Deutsche Bank AG and BT Alex. Brown. Mr. O'Neil holds an AB from Harvard College and an MBA from the Stanford University Graduate School of Business.

Stephen L. Domenik. Mr. Domenik was appointed to our board of directors in June 2012. Since 1995, Mr. Domenik has been a general partner with Sevin Rosen Funds, a venture capital firm. Since August 2010, Mr. Domenik has served on the board of directors of Pixelworks, Inc., and, from February 2016 to April 2016, served as its Interim Chief Executive Officer. Mr. Domenik served on the board of directors of Meru Networks, Inc., from January 2014, and as its chairman from January 2015, until it was acquired in July 2015. Since December 2013, Mr. Domenik has served on the board of directors of Emcore Corporation. He also served on the board of PLX Technology, Inc. prior to its acquisition by Avago and on the board of directors of NetLogic Microsystems, Inc. from January 2001 until it was acquired in February 2012. Mr. Domenik holds a B.S. in Physics and a M.S.E.E. from the University of California at Berkeley. We believe that Mr. Domenik's qualifications to serve on our board of directors include his extensive business experience, having held senior-management positions at several companies in the semiconductor and software industries and having

served on the boards of directors of multiple public semiconductor companies. In addition, he has considerable relevant experience in corporate investments and the strategic development of high-technology companies.

The names of our executive officers and certain information about them are set forth either above or below, as the case may be:

Name	Age	Position(s) with the Company
Leonard Perham	74	President and Chief Executive Officer
James W. Sullivan	49	Vice President of Finance and Chief Financial Officer
John Monson	55	Vice President of Marketing and Sales

James W. Sullivan. Mr. Sullivan became our Vice President of Finance and Chief Financial Officer in January 2008. From July 2006 until January 2008, Mr. Sullivan served as Vice President of Finance and Chief Financial Officer at Apptera, Inc., a venture-backed company providing software for mobile advertising, search and commerce. From July 2002 until June 2006, Mr. Sullivan was the Chief Financial Officer at 8x8, Inc., a provider of voice-over-internet-protocol communication services. Mr. Sullivan's prior experience includes various positions at 8x8, Inc. and PricewaterhouseCoopers LLP. He received a Bachelor of Science degree in Accounting from New York University and is a certified public accountant.

John Monson. Mr. Monson became our Vice President of Marketing in February 2012. In early 2014, he assumed, on a permanent basis, additional responsibilities for our sales and business development activities and became our Vice President of Marketing and Sales. Prior to joining the Company, Mr. Monson was Vice President of Marketing for Mellanox Technologies, a supplier of interconnect solutions and services, from 2009 to 2012. From 2007 to 2008, Mr. Monson was Vice President of the EDC/PhyOptik business line at Inphi Corporation. He joined Inphi Corporation through a business unit acquisition of Scintera Networks, where he was Vice President of Sales and Marketing from 2005 to 2007. Previously, he held various management positions at PMC-Sierra, Inc., Lucent Technologies and AT&T Microelectronics. Mr. Monson received a Bachelor of Science degree in Electrical Engineering from the University of Minnesota.

Director Independence

Our board of directors has determined that each of the current directors, with the exception of Mr. Perham, is "independent," as defined by the listing rules of the NASDAQ Stock Market, or NASDAQ, and the rules and regulations of the Securities and Exchange Commission, or SEC. Our board of directors has standing Audit and Compensation Committees, each of which is comprised solely of independent directors in accordance with the NASDAQ listing rules. No director qualifies as independent unless the board of directors affirmatively determines that he has no direct or indirect relationship with us that would impair his independence. We independently review the relationship of the

Company to any entity employing a director or on whose board of directors he is serving currently.

Compensation Committee interlocks and insider Participation

During 2017, none of our executive officers served as a member of the board of directors or compensation committee of any entity that had one or more of its executive officers serving as a member of our board of directors or Compensation Committee. Messrs. Domenik and Lewis, the Compensation Committee members, were not officers or employees of ours during 2017 or at any other time.

MANAGEMENT COMPENSATION

The information presented below has been modified to reflect the impact of a 1-for-10 reverse stock split effected February 16, 2017. See Note 1 of the consolidated financial statements for further discussion of the reverse stock split.

Summary Compensation Table

The following table sets forth compensation information for fiscal years 2017 and 2016 for our chief executive officer and the next two most highly compensated executive officers.

		Salary	Stock Option Awards	Restricted Stock Awards	Non-Equity Incentive Plan Compensation	Total
Name and principal position	Year	(\$)	(\$)(1)(2)	(\$)(1)	(\$)	(\$)
Leonard Perham Chief Executive Officer &	2016	150,000	_		<u> </u>	150,000
President	2017	150,000	_	_	_	150,000
James Sullivan	2016	234,990	63,114	53,000	55,876 (3) 406,980
Chief Financial Officer & Vice President of Finance	2017	240,990	_	32,200	37,050 (3	310,240
John Monson(4)	2016	225,750	71,701	31,800	48,000 (4	.)
Vice President of Marketing & Sales					5,644	382,895
	2017	225,750	_	32,200	45,600 (4 11,288 (3	<i>'</i>

- (1) Award amounts reflect the aggregate grant date fair value with respect to awards granted during the years indicated, as determined pursuant to FASB ASC Topic 718. The assumptions used to calculate the aggregate grant date fair value of option and stock awards are set forth in the notes to the audited consolidated financial statements included in item 15 of this Report. These amounts do not reflect actual compensation earned or to be earned by our named executive officers.
- (2) As discussed above under Stock Option Exchange, in August 2016, each of the named executive officers, except Mr. Perham, tendered their eligible options and received new options at a rate of 1 replacement option share for each 1.75 option shares tendered. No other stock option awards were granted to the named executive officers in 2016.
- (3) Earned as bonuses in 2016 and 2017 as indicated.
- (4) Mr. Monson became our vice president of marketing in February 2012. In early 2014, he assumed, on a permanent basis, additional responsibilities for our sales and business development activities and became our vice president of marketing and sales. Mr. Monson earned the amounts listed for him in the non-equity incentive plan compensation column for performance pursuant to a sales incentive plan.

Outstanding Equity Awards at Fiscal Year End

The following table sets forth information regarding the outstanding equity awards held by our named executive officers as of December 31, 2017.

	Option Awards	3		Equity Incentive Plan Awards:			Stock Awa	rds		
Name	Number of Securities Underlying Unexercised Options (#) Exercisable	,	Number of Securities Underlying Unexercised Options (#) Unexercisable	Number of Securities Underlying Unexercised Unearned Options (#)	Option Exercise Price(\$)	Option Expiration Date(1)	Number of Units That Have Not Vested (#)		Market Value of Units Tha Have Not Vested (\$)	
James Sullivan		(4)		_	<u> </u>	 3/30/25	600	(2)	666	(3)
	4,375 — 7,015		1,625 — 8,770		7.20	8/23/26	6,666 —	(5)	7,399 —	(3)
John	_		_	_	_	_	35,000	. ,	38,850	(3)
Monson		(4)		_	20.50	3/30/25	400 — 4,000		444 — 4,440	(3)
	5,711 —	(6)	7,140 —		7.20	8/23/26	35,000	(7)		(3)

- (1) The standard option term is generally six to ten years, but all of the options expire automatically unless exercised within 90 days after the cessation of service as an employee, director or consultant of ours.
- (2) The shares subject to each restricted stock unit grant vest annually over a four-year period commencing on February 18, 2014 subject to continued employment (or service as a director or consultant).
- (3) The amount is calculated using the Company's closing price of \$1.11 per share of common stock on December 31, 2017.
- (4) The stock option was granted on March 30, 2015, and the shares subject to this option vest monthly over 48 months subject to continued employment (or service as a director or consultant).
- (5) The shares subject to each restricted stock unit grant vest annually over a three-year period commencing on March 1, 2017 subject to continued employment (or service as a director or consultant).
- (6) As discussed above under Stock Option Exchange, officers tendered their eligible options and received new options at a rate of 1 replacement option share for each 1.75 option shares tendered. Upon expiration of the stock option exchange, the stock option was granted on August 23, 2016, and the shares subject to this option vest monthly over 48 months subject to continued employment (or service as a director or consultant).

(7)

The shares subject to each restricted stock unit grant vest in three equal installments on January 31, 2018, July 31, 2018 and January 3, 2019 subject to continued employment (or service as a director or consultant). Compensation Philosophy and Risk Management

In general, our executive compensation policies are designed to recruit, retain and motivate qualified executives by providing them with a competitive total compensation package based in large part on the executive's contribution to our financial and operational success, the executive's personal performance and increases in stockholder value as measured by the price of our common stock. We believe that the total compensation paid to our executives should be fair, reasonable and competitive.

The chief executive officer (CEO) makes recommendations based on guidelines for equity and non-equity compensation for executives that have been approved by the Compensation Committee. The Compensation Committee reviews these guidelines annually. The CEO annually reviews the performance of our executives (other than himself) and presents his recommendations for proposed salary adjustments, bonuses and equity awards to the Compensation Committee once a year. In its discretion, the Compensation Committee may accept, modify or reject the CEO's recommendations. The Compensation Committee evaluates the compensation of the CEO on its own without the participation or involvement of the CEO. Only the Compensation Committee and the board of directors are authorized to approve the compensation for any named executive officer. Compensation of new executives is based on hiring negotiations between the individuals and our CEO and/or Compensation Committee.

Elements of Compensation

Consistent with our compensation philosophy and objectives, we offer executive compensation packages consisting of the following three components:

- · base salary;
- · annual incentive compensation; and
- · equity awards.

In each fiscal year, the Compensation Committee determines the amount and relative weighting of each component for all executives, including the named executive officers. Base salaries are paid in fixed amounts and thus do not encourage risk taking. Our widespread use of long-term compensation consisting of stock options and restricted stock units (RSUs) focuses recipients on the achievement of our longer-term goals and conserves cash for other operating expenses. The Compensation Committee does not believe that these awards encourage unnecessary or excessive risk taking because the ultimate value of the awards is tied to our stock price, and the use of multi-year vesting schedules helps to align our employees' interests even more closely with those of our long-term investors.

Employment and Change-in-Control Arrangements and Agreements

In 2016, our Compensation Committee adopted our Executive Change-in-Control and Severance Policy (the "Policy"). The benefits provided by the Policy are intended to encourage the continued dedication of our executive officers and to mitigate potential disincentives to the consideration of a transaction that would result in a change in control,

particularly where the services of our named executive officers may not be required by a potential acquirer. The Policy provides for benefits for our named executive officers in the event of a "Change-in-Control," which is generally defined as:

- an acquisition of 45% or more of our common stock or voting securities by any "person" as defined under the Exchange Act; or
 - consummation of a complete liquidation or dissolution of the Company or a merger, consolidation, reorganization or sale of all or substantially all of our assets (collectively, a "Business Combination") other than a Business Combination in which (A) our stockholders receive 50% or more of the stock of the corporation resulting from the Business Combination and (B) at least a majority of the board of directors of such resulting corporation were our incumbent directors immediately prior to the consummation of the Business Combination, and (C) after which no individual, entity or group (excluding any corporation or other entity resulting from the Business Combination or any employee benefit plan of such corporation or of ours)

who did not own 45% or more of the stock of the resulting corporation or other entity immediately before the Business Combination owns 45% or more of the stock of such resulting corporation or other entity.

Under the Policy, the following compensation and benefits are to be provided to our chief executive officer upon the occurrence of a Change-in-Control, and in the case of our other named executive officers, upon a Change-in-Control combined with a termination of the named executive officer's employment without cause, or due to disability or resignation for good reason (as defined in the Policy) in connection with the Change-in-Control or within 24 months after it:

- · any base salary earned but not yet paid through the date of termination;
- · any annual or discretionary bonus earned but not yet paid to him for any calendar year prior to the year in which his termination occurs;
- · any compensation under any deferred compensation plan of ours or deferred compensation agreement with us then in effect:
- · any other compensation or benefits, including without limitation any benefits under long-term incentive compensation plans, any benefits under equity grants and awards and employee benefits under plans that have vested through the date of termination or to which he may then be entitled in accordance with the applicable terms of each grant, award or plan;
- · reimbursement of any business expenses incurred by him through the date of termination but not yet paid;
 - · reimbursement of the cost of continuation of medical benefits for a period of 12 months; and
- · acceleration of vesting of then-outstanding stock options and RSUs which are subject solely to time-based vesting. Under the Policy, "cause" means the executive's:
- willful failure to attend to the executive's duties that is not cured by the executive within 30 days of receiving written notice from the CEO (or, in the case of the CEO, from the board of directors) specifying such failure;
- · material breach of the executive's then-current employment agreement (if any) that is not cured by the executive within 30 days of receiving written notice from the CEO (or, in the case of the CEO, from the board of directors) specifying such breach;
- · conviction of (or plea of guilty or nolo contendere to) any felony or any misdemeanor involving theft or embezzlement; or
- · misconduct resulting in material harm to our business or reputation, including fraud, embezzlement, misappropriation of funds or a material violation of the executive's Employment, Confidential Information, Invention Assignment and Arbitration Agreement; and

Under the Policy, "good reason" means the occurrence of any of the following conditions without the executive's consent, but only if such condition is reported by the executive within 90 days of the executive's knowledge of such condition and remains uncured 30 days after written notice from the executive to the board of directors of said condition:

• a material reduction in the executive's then-current base salary or annual target bonus (expressed as a percentage of Executive's then-current base salary), except for a reduction proportionate to reductions concurrently imposed on all other members of the Company's executive management;

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- a material reduction in the executive's then-current employee benefits package, taken as a whole, except for a reduction proportionate to reductions concurrently imposed on all other members of executive management;
- a material reduction in the executive's responsibilities with respect to our overall operations, such that continuity of
 responsibilities with respect to business operations existing prior to a corporate transaction will serve as a material
 reduction in responsibilities if such business operations represent only a subsidiary or business unit of the larger
 enterprise after the corporate transaction;
- a material reduction in the responsibilities of the executive's direct reports, including a requirement for the chief executive officer to report to another officer as opposed to our board of directors or a requirement for any other executive to report to any officer other than our chief executive officer;
- · a material breach by us of any material provision of the executive's then-current employment agreement (if any);
- a requirement that the executive relocate to a location more than 35 miles from the executive's then-current office location, unless such office relocation results in the distance between the new office and Executive's home being closer or equal to the distance between the prior office and the executive's home;
- · a failure of a successor or transferee to assume our obligations under this Policy; or
- · a failure to nominate the executive for election as a Board director, if, at the proper time for nomination, the executive is a member of the board of directors

Employment Ag	reements
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In addition to the agreements containing the Change-in-Control provisions summarized above, we have entered into our standard form of employment, confidential information, invention assignment and arbitration agreement with each of the named executive officers.

We also have entered into agreements to indemnify our current and former directors and certain executive officers, in addition to the indemnification provided for in our certificate of incorporation and bylaws. These agreements, among other things, provide for indemnification of our directors and certain executive officers for many expenses, including attorneys' fees, judgments, fines and settlement amounts incurred by any such person in any action or proceeding, including any action by or in the right of the Company, arising out of such person's services as a director or executive officer of the Company, any subsidiary of the Company or any other company or enterprise to which the person provided services at our request.

Director Compensation

The following table summarizes the compensation we paid to our non-employee directors in 2017:

Option
Name Awards (\$)(1)(2) Total (\$)

Daniel Lewis	7,080	7,080
Daniel O'Neal	7,080	7,080
Stephen L. Domenik		

(1) Option award amounts reflect the aggregate grant date fair value with respect to stock options granted to the non-employee directors, as determined pursuant to FASB ASC Topic 718. The assumptions used to calculate the aggregate grant date fair value of option awards are set forth in the notes to the audited consolidated financial statements included in the F pages of this report. These amounts do not reflect actual compensation earned or to be earned by our non-employee directors. Option award amounts consist of: options granted to Messrs. Lewis and O'Neil on October 19, 2017 to purchase 80,000 shares each.

(2) As of December 31, 2017, our non-employee directors held outstanding options to purchase the following number of shares of our common stock: Daniel Lewis, 80,000; Daniel O'Neil, 80,000.

Our Amended and Restated 2010 Equity Incentive Plan (the "Equity Plan") permits the board of directors to establish by resolution the number of shares, up to a maximum of 40,000 each year for each non-employee director, to be covered by annual option grants or other awards for each year of service on our board. The awards are to be granted at the first regular meeting of the board of directors following the date of each annual meeting of stockholders and vest in full on the first anniversary of the grant date, subject to continuous service during the period. The Equity Plan also provides that each non-employee director shall be granted an award to acquire up to 120,000 shares upon his or her initial appointment or election to our board of directors, vesting over a four-year period at the rate of one fourth of the total number of shares each year, subject to the non-employee director's continuous service on the board, with the exercise price of the award equal to 100% of the fair market value of a share of common stock on the date that he becomes a director. The Equity Plan also provides that each non-employee director shall be granted an award to purchase up to 20,000 shares for his or her role as chairperson of the Compensation and Audit Committees. The Equity Plan also permits a disinterested majority of the board of directors, in its discretion, to authorize additional shares to be awarded or granted under stock options to committee chairs and other non-employee directors for extraordinary service on the board. The board of directors did not exercise this discretion in 2016. The exercise price per share under each option grant is equal to the fair market value of a share of our common stock on the date of grant on the principal trading market for our common stock at the time of grant, which is the NASDAQ Capital Market, or the Nasdaq CM. In the event of a merger, sale of substantially all of our assets or similar transaction, vesting of all director options would accelerate as to 100% of the unvested shares subject to the award. All awards to directors have a term of not longer than six years.

In 2017, members of our board of directors did not receive any cash compensation for their service as directors. On October 19, 2017, we granted options to purchase 100,000 shares to each of Messrs. Lewis and O'Neil in connection with their initial appointment to our board of directors in September 2017. As we did not have adequate shares available under the Equity Plan for the awards, each of Messrs. Lewis and O'Neil received a grant of 80,000 at an exercise price of \$0.75 per share. These options vest in three annual installments the first anniversary of the date of grant. Options for the remaining 20,000 shares were granted in January 2018.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The following table sets forth certain information as of December 31, 2017 concerning the ownership of our common stock by:

- each stockholder known by us to be the beneficial owner of more than 5% of the outstanding shares of our common stock (currently our only class of voting securities);
- · each of our directors:
- · each of the named executive officers; and

· all directors and executive officers as a group.

Beneficial ownership is determined in accordance with Rule 13d-3 of the Exchange Act, and includes all shares over which the beneficial owner exercises voting or investment power. Shares that are issuable upon the exercise of options, warrants and other rights to acquire common stock that are presently exercisable or exercisable within 60 days of December 31, 2017 are reflected in a separate column in the table below. These shares are taken into account in the calculation of the total number of shares beneficially owned by a particular holder and the total number of shares outstanding for the purpose of calculating percentage ownership of the particular holder. We have relied on information supplied by our officers, directors and certain stockholders and on information contained in filings with the SEC. Except as otherwise indicated, and subject to community property laws where applicable, we believe, based on information provided by these persons, that the persons named in the table have sole voting and investment power with respect to all shares of common stock shown as beneficially owned by them. The percentage of beneficial ownership is based on

8,067,635 shares of common stock outstanding as of December 31, 2017. Unless otherwise stated, the business address of each of our directors and named executive officers listed in the table is 2309 Bering Drive, San Jose, California 95131.

	Amount and Nature of Beneficial Ownership Number of Shares		
Name and Address of Beneficial Owner Ingalls & Snyder LLC 1325 Avenue of the Americas New York, NY 10019	Number of Shares Beneficially Owned (Excluding Outstanding Options)(1) 563,300 (3	Issuable on Exercise of Outstanding Options or Convertible Securities(2)) 563,300 (4	Percent of Class) 7.0
Directors and Officers: Leonard Perham Daniel Lewis Daniel O'Neal	175,364	_	2.2
Stephen L. Domenik	_	_	*
James Sullivan	3,738	12,644	*
John Monson	1,991	11,176	*
All current directors and executive officers as a group (6 persons)	182,583	23,820	2.6

^{*} Represents holdings of less than one percent.

- (1) Excludes shares subject to outstanding options, warrants, convertible securities or other rights to acquire common stock that are exercisable within 60 days of December 31, 2017.
- (2) Represents the number of shares subject to outstanding options, warrants, convertible securities or other rights to acquire common stock that are exercisable within 60 days of December 31, 2017.
- (3) In a Form 13F filed with the SEC on October 20, 2017, Ingalls & Snyder LLC (Ingalls) reported that it had shared dispositive power over all shares, but no voting authority with respect to any such shares. These shares include securities owned by clients of Ingalls, a registered broker dealer and a registered investment advisor, in accounts managed under investment advisory contracts.
- (4) The beneficial ownership of Ingalls includes shares of common stock issuable upon conversion of \$5,209,700 par amount of our 10% senior secured convertible notes due August 15, 2018, which are held by Ingalls & Snyder Value Partners, an investment partnership managed under an investment advisory contract with Ingalls, and for which Ingalls & Snyder Value Partners would have voting and dispositive power if such shares were converted. The individual at Ingalls with dispositive power or voting power with respect to the shares included in the table is Thomas O. Boucher, Managing Director.

Transactions with Related Persons

As previously reported on a Form 8-K filed with the SEC on March 14, 2016, we entered into a 10% Senior Secured Convertible Note Purchase Agreement (the Purchase Agreement) with Ingalls with respect to \$8,000,000 principal amount of 10% Senior Secured Convertible Notes due August 15, 2018 (the Notes), at par, in a private placement transaction effected pursuant to an exemption from the registration requirements under the Securities Act of 1933, as amended (the Offering). The conversion price of the Notes is \$0.90 per share and is subject to adjustment upon

certain events, as set forth in the Purchase Agreement. Pursuant to a security agreement entered into by the Company, the Notes are secured by a security interest in all of the assets of the Company.

The Notes bear interest at the annual rate of 10%. Accrued interest is payable semi-annually in cash or in kind through the issuance of identical new Notes, or with a combination of the two, at the Company's option. The Notes are noncallable and nonredeemable by the Company. The Notes are redeemable at the election of the holders if the Company experiences a fundamental change (as defined in the Notes), which generally would occur in the event (i) any person acquires beneficial ownership of shares of common stock of the Company entitling such person to exercise at least 40% of the total voting power of all of the shares of capital stock of the Company entitled to vote generally in elections of directors, (ii) an acquisition of the Company by another person through a merger or consolidation, or the sale, transfer or lease of all or substantially all of the Company's assets, or (iii) the Company's current directors cease to constitute a majority of the board of directors of the Company within a 12-month period, disregarding for this purpose any director who voluntarily resigns as a director or dies while serving as a director. The redemption price is 120% of the principal amount of the Note to be repurchased plus accrued and unpaid interest as of the redemption date.

In August 2016, the first semi-annual interest payment was made in-kind with the issue of an additional note (Interest Note) to Ingalls. The Interest Note has a principal amount of approximately \$336,000 and has terms identical to the Notes. In February 2017, we made an additional payment of interest on the notes and the interest note for the period from August 2016 to February 15, 2017 in-kind with the issue of an additional note to Ingalls (Interest Note 2). Interest Note 2 has a principal amount of approximately \$420,000 and has terms identical to the Notes and the Interest Note. In August 2017, we made an additional payment of interest on the notes, the interest note and Interest Note 2 for the period from February 2017 to August 15, 2017 in-kind with the issue of an additional note to Ingalls (Interest Note 3). Interest Note 3 has a principal amount of approximately \$434,000 and has terms identical to the Notes, the Interest Note and Interest Note 2.

A related party to one of the Company's executive officers performed construction work at the Company's new corporate headquarters in the fourth quarter of 2017. The construction work was completed at a cost of approximately \$195,000 and was paid in full in the fourth quarter of 2017.

DESCRIPTION OF CAPITAL STOCK

General

The following description of our capital stock and provisions of our certificate of incorporation and bylaws is a summary only and not a complete description.

Our authorized capital stock consists of 120,000,000 shares of common stock, par value \$0.001 per share, and 20,000,000 shares of preferred stock, par value \$0.01 per share

Common Stock

As of December 31, 2017, 8,067,635 shares of our common stock were outstanding and held of record by 6 stockholders. Each holder of our common stock is entitled to—

- · one vote per share on all matters submitted to a vote of the stockholders;
- · dividends as may be declared by our board of directors out of funds legally available for that purpose, subject to the rights of any preferred stock that may be outstanding; and
- · his, her or its pro rata share in any distribution of our assets after payment or providing for the payment of liabilities and the liquidation preference of any outstanding preferred stock in the event of liquidation.

Holders of common stock have no cumulative voting rights, redemption rights or preemptive rights to purchase or subscribe for any shares of our common stock or other securities. All of the outstanding shares of common stock are

fully paid and nonassessable. The rights, preferences and privileges of holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock that we may designate and issue in the future.

Preferred Stock

We have designated 120,000 shares of our preferred stock as Series AA preferred stock for issuance pursuant to the exercise of rights under our rights plan, none of which are outstanding. For more information on the rights plan, see the discussion below. We have no current intention to issue any other shares of preferred stock.

Our board of directors has the authority, subject to any limitations prescribed by Delaware law, to issue shares of preferred stock in one or more series and to fix and determine the relative rights and preferences of the shares constituting any series to be established, without any further vote or action by the stockholders. Any shares of our preferred stock so issued may have priority over our common stock with respect to dividend, liquidation and other rights.

Our board of directors may authorize the issuance of our preferred stock with voting or conversion rights that could adversely affect the voting power or other rights of the holders of our common stock. Although the issuance of our preferred stock could provide us with flexibility in connection with possible acquisitions and other corporate purposes, under some circumstances, it could have the effect of delaying, deferring or preventing a change of control.

Antitakeover Effects of Provisions of Our Certificate of Incorporation and Bylaws and of Delaware Law.

Certain provisions of our charter documents and Delaware law could have an anti-takeover effect and could delay, discourage or prevent a tender offer or takeover attempt that a stockholder might consider to be in its best interests, including attempts that might otherwise result in a premium being paid over the market price of our common stock.

Certificate of Incorporation and Bylaws.

Our certificate of incorporation provides that stockholders can take action only at a duly called annual or special meeting of the stockholders and not by written consent. At the same time, our bylaws provide that special meetings of stockholders may be called only by our chairman of the board, our chief executive officer, a majority of the total number of authorized directors or any individual holder of 25% of the outstanding shares of common stock. These provisions could delay consideration of a stockholder proposal until the next annual meeting. Our bylaws provide for an advance notice procedure for the nomination, other than by or at the direction of our board of directors, of candidates for election as directors, as well as for other stockholder proposals to be considered at annual meetings of stockholders. In addition, under our bylaws newly created directorships resulting from any increase in the number of directors or any vacancies in the board resulting from death, resignation, retirement, disqualification, removal from office or other cause during a director's term in office can be filled by the vote of the remaining directors in office, and the board is expressly authorized to amend the bylaws without stockholder consent. These provisions may preclude a third party from removing incumbent directors and can control of our board of directors. Accordingly, these provisions could discourage a third party from initiating a proxy contest, making a tender offer or otherwise attempting to gain control of our company.

Delaware Takeover Statute.

Section 203 of the Delaware General Corporation Law, or DGCL, generally prohibits a publicly-held Delaware corporation from engaging in an acquisition, asset sale or other transaction resulting in a financial benefit to any person who, together with affiliates and associates, owns, or within three years did own, 15.0% or more of a

corporation's voting stock. The prohibition continues for a period of three years after the date of the transaction in which the person becomes an owner of 15.0% or more of the corporation's voting stock, unless the business combination is approved in a prescribed manner. The statute could prohibit, delay, defer or prevent a change in control with respect to our company.

Antitakeover Effects of Our Rights Plan

On November 10, 2010, we executed a rights agreement in connection with the declaration by our board of directors of a dividend of one preferred stock purchase right to be paid on November 10, 2010, referred to as the "record date," for each share of our common stock issued and outstanding at the close of business on the record date. Each right entitles the registered holder to purchase one one-thousandth of a share of our Series AA Preferred Stock, \$0.01 par value per share, at a price of \$48.00 per one one-thousandth of a share of such Series AA Preferred Stock, subject to adjustment, including as a result of our one-for-ten reverse stock split in February 2017 (which adjustment is not reflected here). Generally, the rights will not be exercisable until a third party acquires 15% of our common stock or commences or announces its intent to commence a tender offer for at least 15% of our common stock, other than holders of "grandfathered stock" as defined in the rights agreement.

Under the rights agreement, the firm of Ingalls & Snyder, or I&S, and its managed account beneficial owners collectively will not trigger the rights as long as none of their shares are held for the purpose of acquiring control or effecting change or influence in control of us. This exclusion applies only to shares of common stock for which there is only shared dispositive power and I&S has only non-discretionary voting power.

The rights agreement could delay, deter or prevent an investor from acquiring us in a transaction that could otherwise result in our stockholders receiving a premium over the market price for their shares of common stock. The above discussion of the rights agreement is not complete, and we urge you to read the entire rights agreement and our certificate of incorporation, as amended, to see all of the terms and conditions applicable to the Series AA Preferred Stock and the rights to acquire shares of such stock. (See item (n) under "Information Incorporated by Reference."

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Wells Fargo Bank, National Association.

NASDAQ Capital Market Listing

Our common stock is listed on The NASDAQ Capital Market under the symbol "MOSY."

SELLING STOCKHOLDERS

This prospectus covers an aggregate of up to 662,500 shares of our common stock that may be sold or otherwise disposed of by the selling stockholders. Such shares are issuable to the selling stockholders upon the exercise of the common stock purchase warrants we issued to the selling stockholders in a private placement transaction.

The following table sets forth information about each selling stockholder, including (i) the shares of our common stock beneficially owned by the selling stockholder prior to this offering, (ii) the number of shares being offered by the selling stockholder pursuant to this prospectus and (iii) the selling stockholder's beneficial ownership after completion of this offering, assuming that all of the shares covered hereby (but none of the other shares, if any, held by the selling stockholders) are sold. The registration of the shares of common stock issuable to the selling stockholders upon the exercise of the warrants does not necessarily mean that the selling stockholders will sell all or any of such shares. The selling stockholders may sell or otherwise dispose of all, a portion or none of such shares from time to time. We do not know the number of shares, if any, that will be offered for sale or other disposition by any of the selling stockholders under this prospectus. Furthermore, the selling stockholders may have sold, transferred or disposed of the shares of common stock covered hereby in transactions exempt from the registration requirements of the Securities Act since the date on which we filed this prospectus.

The table is based on information supplied to us by the selling stockholders, with beneficial ownership and percentage ownership determined in accordance with the rules and regulations of the SEC and includes voting or investment power with respect to shares of stock. This information does not necessarily indicate beneficial ownership for any other purpose. In computing the number of shares beneficially owned by a selling stockholder and the percentage ownership of that selling stockholder, shares of common stock subject to warrants held by that selling stockholder that are

exercisable as of December 31, 2017, or exercisable within 60 days after December 31, 2017, are deemed outstanding. Such shares, however, are not deemed outstanding for the purposes of computing the percentage ownership of any other person. The percentage of beneficial ownership after this offering is based on 8,067,635 shares outstanding on December 31, 2017.

To our knowledge and except as noted below, none of the selling stockholders has, or within the past three years has had, any position, office or other material relationship with us or any of our predecessors or affiliates.

	Beneficial Ownership Before This Offering	Shares Underlying Warrants	Beneficial Owne	ership After This	
	Number of	Offered	Number of	Percentage of	
Selling Stockholder (1)	Shares Owned	Hereby (8)	Shares Owned	Outstanding Sh	nares
Hudson Bay Master Fund Ltd	147,500	147,500	_	*	
Intracoastal Capital, LLC (2)	147,500	147,500	_	*	
CVI Investments, Inc. (3)	147,500	147,500	_	*	
Herald Investment Trust PLC (4)	389,500	72,500	317,000	3.93	%
Empery Asset Master, LTD (5)	68,105	68,105	_	*	
Empery Tax Efficient, LP (6)	31,795	31,795	_	*	
Empery Tax Efficient II, LP (7)	47,600	47,600	_	*	

^{*} Represents holdings of less than one percent.

- (1) This table and the information in the notes below are based upon information supplied by the selling stockholders, including reports and amendments thereto filed with the SEC on Schedule 13G.
- (2) Mitchell P. Kopin and Daniel B. Asher, each of whom are managers of Intracoastal Capital LLC, or Intracoastal, have shared voting control and investment discretion over the securities reported herein that are held by Intracoastal. As a result, each of Mr. Kopin and Mr. Asher may be deemed to have beneficial ownership (as determined under Section 13(d) of the Securities Exchange Act of 1934, as amended) of the securities reported herein that are held by Intracoastal.
- (3) Heights Capital Management, Inc., the authorized agent of CVI Investments, Inc., or CVI, has discretionary authority to vote and dispose of the shares held by CVI and may be deemed to be the beneficial owner of these shares. Martin Kobinger, in his capacity as investment manager of Heights Capital Management, Inc., may also be deemed to have investment discretion and voting power over the shares held by CVI. Mr. Kobinger disclaims any such beneficial ownership of the shares.
- (4) In a Form 13F filed with the SEC on November 13, 2017, Herald Investment Management Ltd reported that it had sole dispositive power and voting authority with respect to all shares. The individual with dispositive power or voting power with respect to the shares included in the table is Adrian Butterworth.

Empery Asset Management LP, the authorized agent of Empery Asset Master Ltd, or EAM, has discretionary authority to vote and dispose of the shares held by EAM and may be deemed to be the beneficial owner of these shares. Martin Hoe and Ryan Lane, in their capacity as investment managers of Empery Asset Management LP, may also be deemed to have investment discretion and voting power over the shares held by EAM. EAM, Mr. Hoe and Mr. Lane each disclaim any beneficial ownership of these shares.

(6) Empery Asset Management LP, the authorized agent of Empery Tax Efficient, LP, or ETE, has discretionary authority to vote and dispose of the shares held by ETE and may be deemed to be the beneficial owner of these shares. Martin Hoe and Ryan Lane, in their capacity as investment managers of Empery Asset Management LP, may also be deemed to have investment discretion and voting power over the shares held by ETE. ETE, Mr. Hoe and Mr. Lane each disclaim any beneficial ownership of these shares.

- (7) Empery Asset Management LP, the authorized agent of Empery Tax Efficient II, LP or ETE II, has discretionary authority to vote and dispose of the shares held by ETE II and may be deemed to be the beneficial owner of these shares. Martin Hoe and Ryan Lane, in their capacity as investment managers of Empery Asset Management LP, may also be deemed to have investment discretion and voting power over the shares held by ETE II. ETE II, Mr. Hoe and Mr. Lane each disclaim any beneficial ownership of these shares
- (8) The actual number of shares of common stock offered hereby and included in the registration statement of which this prospectus forms a part includes, in accordance with Rule 416 under the Securities Act, such indeterminate number of additional shares of our common stock as may become issuable in connection with any proportionate adjustment for any stock splits, stock combinations, stock dividends, recapitalizations or similar events with respect to common stock.

PLAN OF DISTRIBUTION

The selling stockholders, including their transferees, donees, pledgees, assignees and successors-in-interest, may sell, transfer or otherwise dispose of any or all of the shares of common stock offered by this prospectus from time to time on The NASDAQ Capital Market or any other stock exchange, market or trading facility on which the shares are traded or in private transactions. These dispositions may be at fixed prices, at market prices prevailing at the time of sale, at prices related to prevailing market price or at negotiated prices. The selling stockholders may use any one or more of the following methods when selling shares:

- · ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- · block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- · purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
 - an exchange distribution in accordance with the rules of the applicable exchange;
- · privately negotiated transactions;
- · broker-dealers may agree with the selling shareholder to sell a specified number of such shares at a stipulated price per share;
- · a combination of any such methods of sale;
- through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise; or
- · any other method permitted pursuant to applicable law.

The selling stockholders may also sell shares under Rule 144 under the Securities Act, if available, rather than under this prospectus.

Broker-dealers engaged by the selling stockholders may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the selling stockholders or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser in amounts to be negotiated. The selling stockholders do not expect these commissions and discounts relating to their sales of shares to exceed what is customary in the types of transactions involved. A manager of Intracoastal, one of the selling stockholders, is also a control person of a broker-dealer. As a result of such common control, Intracoastal may be deemed to be an affiliate of a broker-dealer. Intracoastal acquired its warrants in the ordinary course of business, and will acquire the shares issuable on exercise of those warrants in the ordinary course

of business. As of the date of this prospectus Intracoastal did not have any arrangements or understandings with any person to distribute such securities.

The selling stockholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of the common stock in the course of hedging the positions they assume. The selling stockholders may also sell shares of our common stock short and deliver these securities to close out its short positions, or loan or pledge the common stock to broker-dealers that in turn may sell these securities. The selling stockholders may also enter into option or other transactions with broker-dealers or other financial institutions or the creation of one or more derivative securities which require the delivery to such broker-dealer or other financial institution may resell pursuant to this prospectus, as supplemented or amended to reflect such transaction..

The selling stockholders and any broker-dealers or agents that are involved in selling the shares may be deemed to be "underwriters" within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Each selling stockholder has informed us that it does not have any agreement or understanding, directly or indirectly, with any person to distribute the common stock.

Because the selling stockholders may be deemed to be an "underwriter" within the meaning of the Securities Act, it will be subject to the prospectus delivery requirements of the Securities Act. In addition, any securities covered by this prospectus which qualify for sale pursuant to Rule 144 under the Securities Act may be sold under Rule 144 rather than under this prospectus. The selling stockholders have advised us that there is no underwriter or coordinating broker acting in connection with the proposed sale of the resale securities by the selling stockholders.

The shares will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the shares may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the registration or qualification requirement is available and is complied with.

Under applicable rules and regulations under the Exchange Act, any person engaged in the distribution of the resale shares may not simultaneously engage in market making activities with respect to our common stock for the applicable restricted period, as defined in Regulation M, prior to the commencement of the distribution. In addition, the selling stockholders will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including Regulation M, which may limit the timing of purchases and sales of shares of our common stock by the selling stockholders or any other person.

We have agreed to use commercially reasonable efforts to keep the registration statement continuously effective at all times until (a) the warrant shares are sold under such registration statement or pursuant to Rule 144 under the Securities Act, (b) the warrant shares may be sold without volume or manner-of-sale restrictions pursuant to Rule 144 under the Securities Act, and (c) the five-year anniversary of the date of the issuance of the warrants, whichever is the earliest to occur. The shares will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the shares may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the registration or qualification requirement is available and is complied with.

We are required to pay certain fees and expenses in connection with the registration of the shares of common stock issuable upon exercise of the warrant. We have agreed to indemnify the selling stockholders against certain losses,

claims, damages and liabilities, including liabilities under the Securities Act.

We will not receive any proceeds from the sale of the shares by the selling stockholders.

LEGAL MATTERS

The validity of the issuance of shares of any securities offered hereby will be passed upon for us by Pillsbury Winthrop Shaw Pittman LLP, Palo Alto, California.

EXPERTS

The consolidated financial statements of MoSys, Inc. as of December 31, 2016 and 2015 and for each of the three years in the period ended December 31, 2016, have been included in this prospectus in reliance on the report (which contains an explanatory paragraph relating to MoSys' ability to continue as a going concern as described in Note 1 to the consolidated financial statements) of BPM LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and special reports and other information with the SEC which you can read on our website is www.mosys.com. The information available on or through our website is not part of or incorporated by reference into, this prospectus and should not be relied upon. You may read and obtain copies at prescribed rates of any document that we file with the SEC at its Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1 800 SEC 0330 for further information on the operation of the Public Reference Room. Our SEC filings are also available to you free of charge at the SEC's web site at http://www.sec.gov, which contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC.

This prospectus is part of a registration statement on Form S 1 that we filed with the SEC, of which this prospectus is a part, under the Securities Act, with respect to the shares of common stock offered hereby. This prospectus omits some information contained in the registration statement in accordance with SEC rules and regulations. You should review the information and exhibits in the registration statement for further information about us and the securities being offered hereby. Statements in this prospectus concerning any document we filed as an exhibit to the registration statement or that we otherwise filed with the SEC are not intended to be comprehensive and are qualified by reference to the filings. You should review the complete document to evaluate these statements.

INFORMATION INCORPORATED BY REFERENCE

We expect to incorporate by reference any future filings, other than current reports furnished under Item 2.02 or Item 7.01 of Form 8 K and exhibits filed on such form that are related to such items, made with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act filed after the effective date of the registration statement, of which this prospectus is a part, in each case, other than those documents or the portions of those documents deemed to be furnished and not filed in accordance with SEC rules, until the termination of the offering of the securities under the registration statement of which this prospectus forms a part. Information in such future filings updates and supplements the information provided in this prospectus.

We will provide without charge to each person, including any beneficial owners, to whom this prospectus is delivered, upon his or her written or oral request, a copy of any or all reports or documents referred to above which have been or may be incorporated by reference into this prospectus but not delivered with this prospectus, excluding exhibits to those reports or documents unless they are specifically incorporated by reference into those documents. You may request a copy of these documents by writing or telephoning us at the following address.

MoSys, Inc.

2309 Bering Drive

San Jose, CA 95131

(408) 418 7500

Attention: Chief Financial Officer

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In addition, you may obtain a copy of these filings from the SEC as described above in the section entitled "Where You Can Find More Information."

MOSYS, INC.

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Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders

of MoSys, Inc.

We have audited the accompanying consolidated balance sheets of MoSys, Inc. and its subsidiaries (the "Company") as of December 31, 2016 and 2015, and the related consolidated statements of operations and comprehensive loss, stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2016. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits 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. The Company is not required to have, nor were we engaged to perform, an audit of the Company's internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of MoSys, Inc. and its subsidiaries as of December 31, 2016 and 2015, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2016 in conformity with accounting principles generally accepted in the United States of America.

The accompanying consolidated financial statements have been prepared assuming the Company will continue as a going concern. As discussed in Note 1 to the consolidated financial statements, the Company has incurred recurring net losses and negative cash flows. These conditions raise substantial doubt about its ability to continue as a going concern. Management's plans regarding those matters also are described in Note 1. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/ BPM LLP

San Jose, California

March 30, 2017

MOSYS, INC.

CONSOLIDATED BALANCE SHEETS

(In thousands, except par value data)

	December 31, 2016	2015
ASSETS		
Current assets		
Cash and cash equivalents	\$ 8,766	\$ 5,640
Short-term investments	1,002	14,598
Accounts receivable, net	559	729
Inventories	1,451	1,597
Prepaid expenses and other	473	701
Total current assets	12,251	23,265
Property and equipment, net	1,274	1,630
Goodwill	13,276	23,134
Intangible assets, net	223	334
Other	121	329
Total assets	\$ 27,145	\$ 48,692
LIABILITIES AND STOCKHOLDERS' EQUITY Current liabilities		
Accounts payable	\$ 561	\$ 940
Accrued expenses and other	2,773	2,664
Total current liabilities	3,334	3,604
Long-term liabilities	233	247
Convertible notes payable	8,250	
Total liabilities	11,817	3,851
Commitments and contingencies (Note 9)		
Stockholders' equity Preferred stock, \$0.01 par value; 20,000 shares authorized; none issued and outstanding	_	_
Common stock, \$0.001 par value; 120,000 shares authorized; 6,630 shares and 6,549 shares issued and outstanding at December 31, 2016 and December 31, 2015	7	7

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Additional paid-in capital	229,341	226,822
Accumulated other comprehensive loss		(16)
Accumulated deficit	(214,020)	(181,972)
Total stockholders' equity	15,328	44,841
Total liabilities and stockholders' equity	\$ 27,145	\$ 48,692

Note: Share and per share amounts have been adjusted to reflect the impact of a 1-for-10 reverse stock split effected February 16, 2017, as discussed in Note 1.

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

MOSYS, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS

(In thousands, except per share data)

	Year Ended December 31,		
	2016	2015	2014
Net revenue			
Product	\$ 4,604	\$ 2,400	\$ 2,280
Royalty and other	1,420	1,990	3,100
Total net revenue	6,024	4,390	5,380
Cost of net revenue	3,075	2,474	2,318
Gross profit	2,949	1,916	3,062
Operating expenses			
Research and development	18,086	27,108	29,261
Selling, general and administrative	5,693	6,299	6,519
Impairment of goodwill	9,858	_	_
Restructuring charges	676	_	_
Total operating expenses	34,313	33,407	35,780
Loss from operations	(31,364)	(31,491)	(32,718)
Interest expense	687	_	
Other income, net	48	94	143
Loss before income taxes	(32,003)	(31,397)	(32,575)
Income tax provision	45	86	107
Net loss	\$ (32,048)	\$ (31,483)	\$ (32,682)
Other comprehensive income (loss), net of tax:			
Net unrealized gains (losses) on available-for-sale securities	16	(6)	(23)
Comprehensive loss	\$ (32,032)	\$ (31,489)	\$ (32,705)
Net loss per share			
Basic and diluted	\$ (4.86)	\$ (5.04)	\$ (6.60)
Shares used in computing net loss per share			
Basic and diluted	6,601	6,249	4,952

Note: Share and per share amounts have been adjusted to reflect the impact of a 1-for-10 reverse stock split effected February 16, 2017, as discussed in Note 1.

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

MOSYS, INC.

CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

(In thousands)

	Common	Stock	Additional Paid-In	Accumulated Other Comprehensiv Income	ve Accumulated	
	Shares	Amount	Capital	(Loss)	Deficit	Total
Balance at January 1, 2014	4,889	\$ 5	\$ 193,207	\$ 13	\$ (117,807)	\$ 75,418
Issuance of common stock for						
exercise of options, employee						
stock purchase plan and	00		2.226			2.226
release of awards	90		2,236 4,591	_	_	2,236
Stock-based compensation Change in unrealized gain			4,391	_	_	4,591
on available-for-sale						
investments				(23)		(23)
Net loss				(23)	(32,682)	(32,682)
Balance at December 31, 2014	4,979	5	200,034	(10)	(150,489)	49,540
Issuance of common stock for	1,2 . 2	-		(= 0)	(===, ===)	12,0
exercise of options, employee						
stock purchase plan and						
release of awards	133	_	1,772	_	_	1,772
Issuance of common stock,						
net of costs of \$1,632	1,437	2	21,366	_	_	21,368
Stock-based compensation		_	3,650	_	_	3,650
Change in unrealized loss on						
available-for-sale investments			_	(6)	<u> </u>	(6)
Net loss	6.540	-	226.022	(1.6)	(31,483)	(31,483)
Balance at December 31, 2015	6,549	7	226,822	(16)	(181,972)	44,841
Issuance of common stock for						
exercise of options, employee stock purchase plan and						
release of awards	81		364			364
Stock-based compensation	<u> </u>	_	2,155	_	_	2,155
Change in unrealized loss on			2,133			2,133
available-for-sale investments				16		16
Net loss				_	(32,048)	(32,048)
Balance at December 31, 2016	6,630	\$ 7	\$ 229,341	\$ —	\$ (214,020)	\$ 15,328
Note: Share and per share amoun	nts have be	en adjusted	to reflect the in	mpact of a 1-for-		•

Note: Share and per share amounts have been adjusted to reflect the impact of a 1-for-10 reverse stock split effected February 16, 2017, as discussed in Note 1.

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

MOSYS, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(In thousands)

	Year Ended December 31,		
	2016	2015	2014
Cash flows from operating activities:	. (22 0 10)	. (24 402)	d (22 (22)
Net loss	\$ (32,048)	\$ (31,483)	\$ (32,682)
Adjustments to reconcile net loss to net cash used in operating			
activities:	000	60 =	4.40
Depreciation and amortization	998	607	449
Stock-based compensation	2,155	3,650	4,591
Amortization of intangible assets	111	321	1,000
Impairment of goodwill	9,858		
Amortization of debt issuance costs	37		
Accrued interest	650	_	
Loss on disposal of assets	4	_	
Changes in assets and liabilities:			
Accounts receivable	170	(552)	(29)
Inventories	146	(716)	(314)
Prepaid expenses and other assets	459	104	405
Accounts payable	(419)	261	(23)
Accrued expenses and other liabilities	(64)	334	296
Net cash used in operating activities	(17,943)	(27,474)	(26,307)
Cash flows from investing activities:			
Purchases of property and equipment	(646)	(1,202)	(596)
Proceeds from sales and maturities of marketable securities	50,486	44,953	39,270
Purchases of marketable securities	(36,874)	(36,873)	(15,859)
Net cash provided by investing activities	12,966	6,878	22,815
Cash flows from financing activities:			
Proceeds from sale of common stock, net of issuance costs		21,368	
Net proceeds from issuance of common stock	364	1,772	2,238
Proceeds from the issuance of notes payable, net of issuance costs	7,877		
Payments on capital lease obligations	(138)	(14)	
Net cash provided by financing activities	8,103	23,126	2,238
Net increase (decrease) in cash and cash equivalents	3,126	2,530	(1,254)
The increase (decrease) in easi and easi equivalents	3,120	2,550	(1,23 1)
Cash and cash equivalents at beginning of period	5,640	3,110	4,364
Cash and cash equivalents at end of period	\$ 8,766	\$ 5,640	\$ 3,110
Supplemental disclosure:			
Issuance of convertible notes in settlement of accrued interest	\$ 336	\$ —	\$ —
Cash paid for income taxes	\$ 21	\$ 56	\$ 111

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

MOSYS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 1: The Company and Summary of Significant Accounting Policies

The Company

MoSys, Inc. (the Company) was incorporated in California in September 1991, and reincorporated in September 2000 in Delaware. The Company's strategy and primary business objective is to be an IP-rich fabless semiconductor company focused on the development and sale of integrated circuit (IC) products. Prior to 2011, the Company's primary business activities were designing, developing, marketing and licensing high-performance semiconductor memory and high-speed parallel and serial interface, or SerDes, intellectual property (IP) used by the semiconductor industry and communications, networking and storage equipment manufacturers. Since 2011, the Company has developed two IC product lines under the "Bandwidth Engine" and "LineSpeed" product names. Bandwidth Engine ICs combine the Company's proprietary high-density embedded memory with its high-speed 10 gigabits per second and higher interface technology. The LineSpeed IC product line is comprised of non-memory based, high-speed SerDes devices with gearbox or retimer functionality that convert lanes of data received on line cards or by optical modules into different configurations and/or ensure signal integrity. Both product lines are being marketed to networking and communications systems companies. The Company's future success and ability to achieve and maintain profitability depends on its success in developing a market for its ICs.

The accompanying consolidated financial statements of the Company have been prepared on a basis that assumes that the Company will continue as a going concern and contemplates the realization of assets and the satisfaction of liabilities and commitments in the normal course of business.

Liquidity

In December 2016, the Company adopted Financial Accounting Standards Board (FASB) Accounting Standard Update (ASU) No. 2014-15 (ASU 2014-15), Going Concern. ASU 2014-15 requires management to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the entity's ability to continue as a going concern within one year after the date that the financial statements are issued. If management identifies conditions or events that raise substantial doubt about an entity's ability to continue as a going concern, management must consider if there are plans that are probable to be implemented, and whether it is probable that the plans will mitigate the conditions or events raising the substantial doubt about the entity's ability to continue as a going concern. If the substantial doubt is not alleviated after consideration of management's plans, the entity must include a statement in the notes to the financial statements indicating that there is substantial doubt about the entity's ability to continue as a going concern within one year after the date that the financial statements are issued including: 1) the principal conditions or events that raise substantial doubt about the entity's ability to continue as a going concern, 2) management's evaluation of the significance of those conditions or events in relation to the entity's ability to meet its obligations, and 3) management's plans to attempt to mitigate the conditions or events causing the substantial doubt about the entity's ability to continue as a going concern.

The Company incurred net losses of approximately \$32.0 million and \$31.5 million for the years ended December 31, 2016 and 2015, respectively, and had an accumulated deficit of approximately \$214.0 million as of December 31, 2016. These and prior year losses have resulted in significant negative cash flows for almost a decade and have required the Company to raise substantial amounts of additional capital during this period. To date, the Company has

primarily financed its operations through multiple offerings of common stock to investors and affiliates, as well as asset sale transactions. In March 2016, the Company entered into a 10% Senior Secured Convertible Note Purchase Agreement with the purchasers of \$8.0 million principal amount of 10% Senior Secured Convertible Notes due August 15, 2018 (the Notes), at par, in a private placement transaction. The Notes bear interest at the annual rate of 10%. Accrued interest is payable semi-annually in cash or in-kind through the issuance of identical new Notes, or with a combination of the two, at the Company's option. As of February 15, 2017, the Company has made the interest payments in-kind through the issuance of additional notes totaling approximately \$0.8 million. Further, the Notes restrict the ability of the Company to incur any indebtedness for borrowed money, unless such indebtedness by its terms is expressly subordinated to the Notes

in right of payment and to the security interest of the Note holder(s) in respect to the priority and enforcement of any security interest in property of the Company securing such new debt; provided that the Note holder(s) security interest and cash payment rights under the Notes shall be subordinate to a maximum of \$5 million of indebtedness for a secured accounts receivable line of credit facility under certain conditions. (See Note No. 11, Convertible Notes)

The Company expects to continue to incur operating losses for the foreseeable future as it secures customers for and continues to invest in the commercialization of its IC products. Due to the strong commitment of the Company's resources to research and development and expansion of its product offerings to customers, the Company will need to increase revenues substantially beyond levels that it has attained in the past in order to generate sustainable operating profit and sufficient cash flows to continue doing business without raising additional capital from time to time. As a result of the Company's expected operating losses and cash burn for the foreseeable future, recurring losses from operations, and the need to repay the Notes and accrued interest in 2018, if the Company is unable to raise sufficient capital through additional debt or equity arrangements, there will be uncertainty regarding the Company's ability to maintain liquidity sufficient to operate its business effectively, which raises substantial doubt as to the Company's ability to continue as a going concern within one year from the date of issuance of these consolidated financial statements. These consolidated financial statements do not include any adjustments that might result from this uncertainty. There can be no assurance that such additional capital, whether in the form of debt or equity financing, will be sufficient or available and, if available, that such capital will be offered on terms and conditions acceptable to the Company. The Company is exploring various alternatives, and expects to implement cost reductions to successfully sustain the business. If the Company is unsuccessful in these efforts, it will need to implement significant cost reduction strategies that could affect its near- and long-term business plan. These efforts may include, but are not limited to reducing headcount and curtailing business activities, especially around new product development.

Basis of Presentation

The consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries. All significant intercompany transactions and balances have been eliminated in consolidation. The Company's fiscal year ends on December 31 of each calendar year.

Reverse Stock Split

On February 16, 2017, the Company effected a one-for-10 reverse stock split of its common stock. As a result of the reverse stock split, every ten shares of the Company's pre-reverse split outstanding common stock was combined and reclassified into one share of common stock. Proportionate voting rights and other rights of common stock holders were not affected by the reverse stock split. No fractional shares were issued in connection with the reverse stock split; stockholders who would otherwise hold a fractional share of common stock received cash in an amount equal to the product obtained by multiplying (i) the closing sale price of the Company's common stock on the effective date of the reverse stock split, by (ii) the number of shares of the Company's common stock held by the stockholder that would otherwise have been exchanged for the fractional share interest. All stock options and restricted stock units outstanding and common stock reserved for issuance under the Company's equity incentive plans immediately prior to the reverse stock split were adjusted by dividing the number of affected shares of common stock by 10 and, as applicable, multiplying the exercise price by 10, as a result of the reverse stock split. The common stock par value was adjusted to \$0.001 in conjunction with the reverse stock split. All of the share numbers, share prices, and exercise prices have been adjusted, on a retroactive basis to reflect this 1-for-10 reverse stock split.

Use of Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses recognized during the reported period. Actual results could differ from those estimates.

Foreign Currency

The functional currency of the Company's foreign entities is the U.S. dollar. The financial statements of these entities are translated into U.S. dollars and the resulting gains or losses are included in other income, net in the consolidated statements of operations and comprehensive loss. Such gains and losses were not material for any period presented.

Cash Equivalents and Investments

The Company has invested its excess cash in money market accounts, certificates of deposit, corporate debt, government-sponsored enterprise bonds and municipal bonds and considers all highly liquid debt instruments purchased with an original maturity of three months or less to be cash equivalents. Investments with original maturities greater than three months and remaining maturities less than one year are classified as short-term investments. Investments with remaining maturities greater than one year are classified as long-term investments. Management generally determines the appropriate classification of securities at the time of purchase. All securities are classified as available-for-sale. The Company's available-for-sale short-term and long-term investments are carried at fair value, with the unrealized holding gains and losses reported in accumulated other comprehensive loss. Realized gains and losses and declines in the value judged to be other-than-temporary are included in the other income, net line item in the consolidated statements of operations and comprehensive loss. The cost of securities sold is based on the specific identification method.

Fair Value Measurements

The Company measures the fair value of financial instruments using a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value into three broad levels:

Level 1—Inputs used to measure fair value are unadjusted quoted prices that are available in active markets for the identical assets or liabilities as of the reporting date.

Level 2—Pricing is provided by third party sources of market information obtained through the Company's investment advisors, rather than models. The Company does not adjust for, or apply, any additional assumptions or estimates to the pricing information it receives from advisors. The Company's Level 2 securities include cash equivalents and available-for-sale securities, which consisted primarily of certificates of deposit, corporate debt, and government agency and municipal debt securities from issuers with high-quality credit ratings. The Company's investment advisors obtain pricing data from independent sources, such as Standard & Poor's, Bloomberg and Interactive Data Corporation, and rely on comparable pricing of other securities because the Level 2 securities are not actively traded and have fewer observable transactions. The Company considers this the most reliable information available for the valuation of the securities.

Level 3—Unobservable inputs that are supported by little or no market activity and reflect the use of significant management judgment are used to measure fair value. These values are generally determined using pricing models for which the assumptions utilize management's estimates of market participant assumptions. The determination of fair value for Level 3 investments and other financial instruments involves the most management judgment and subjectivity.

Allowance for Doubtful Accounts

The Company establishes an allowance for doubtful accounts to ensure that its trade receivables balances are not overstated due to uncollectibility. The Company performs ongoing customer credit evaluations within the context of the industry in which it operates and generally does not require collateral from its customers. A specific allowance of

up to 100% of the invoice value is provided for any problematic customer balances. Delinquent account balances are written off after management has determined that the likelihood of collection is remote. The Company grants credit only to customers deemed creditworthy in the judgment of management. There was no allowance for doubtful accounts receivable at December 31, 2016 and 2015.

Inventory

The Company values its inventories at the lower of cost, which approximates actual cost on a first-in, first-out basis, or market value. The Company records inventory reserves for estimated obsolescence or unmarketable inventories based upon assumptions about future demand and market conditions. Once a reserve is established, it is maintained until the product to which it relates is sold or otherwise disposed of. If actual market conditions are less favorable than those expected by management, additional adjustment to inventory valuation may be required. Charges for obsolete and slow moving inventories are recorded based upon an analysis of specific identification of obsolete inventory items and quantification of slow moving inventory items. The Company recorded no inventory reserves during the years ended December 31, 2016 and 2014, and inventory reserves of \$0.3 million during the year ended December 31, 2015.

Property and Equipment

Property and equipment are originally recorded at cost. Depreciation is computed using the straight-line method over the estimated useful lives of the assets, generally three to five years. Depreciation is recorded in operating expenses in the consolidated statements of operations and comprehensive loss. Leasehold improvements and assets acquired through capital leases are amortized over the shorter of their estimated useful life or the lease term and are recorded with depreciation expense in the consolidated statements of operations and comprehensive loss.

Valuation of Long-lived Assets

The Company evaluates the recoverability of long-lived assets with finite lives whenever events or changes in circumstances occur that indicate that the carrying value of the asset or asset group may not be recoverable. Finite-lived intangible assets are being amortized on a straight-line basis over their estimated useful lives of three to seven years. An impairment charge is recognized as the difference between the net book value of such assets and the fair value of such assets at the date of measurement. The measurement of impairment requires management to estimate future cash flows and the fair value of long-lived assets.

Intangible Assets

Intangible assets acquired in business combinations, referred to as purchased intangible assets, are accounted for based on the fair value of assets purchased and are amortized over the period in which economic benefit is estimated to be received.

Goodwill

The Company reviews goodwill for impairment on an annual basis or whenever events or changes in circumstances indicate the carrying value of an asset may not be recoverable. The Company first assesses qualitative factors to determine whether it is more-likely-than-not that the fair value of the reporting unit is less than the carrying amount as a basis for determining whether it is necessary to perform the two-step impairment test. If the qualitative assessment warrants further analysis, the Company compares the fair value of the reporting unit to its carrying value. The fair value of the reporting unit is determined using the market approach. If the fair value of the reporting unit exceeds the carrying value of net assets of the reporting unit, goodwill is not impaired, and the Company is not required to perform further testing. If the carrying value of the reporting unit's goodwill exceeds its implied fair value, then the Company must record an impairment charge equal to the difference. The Company has determined that it has a single reporting unit for purposes of performing its goodwill impairment test. As the Company uses the market approach to assess impairment in the second step of the analysis, the price of its common stock is an important component of the fair value calculation. If the Company's stock price continues to experience significant price and volume fluctuations, this will impact the fair value of the reporting unit, which can lead to potential impairment in future periods. The

Company performed step one of the annual impairment test in September 2016, and concluded no factors indicated impairment of goodwill.

During the fourth quarter of 2016, the Company concluded a triggering event had occurred due to a sustained decrease in the price per share of its common stock and related reduced market capitalization. The Company performed the first step of the impairment test to identify potential goodwill impairment, and the test results indicated the goodwill

carrying value was greater than its fair value. The Company then performed a step-two analysis to compare the carrying amount of goodwill to the implied fair value of the goodwill, and the Company determined the estimated fair values of the assets and liabilities of its single reporting unit. The fair values of the assets and liabilities identified in the impairment test were determined using the combination of the income approach and the market approach. The implied fair value of goodwill was measured as the excess of the fair value of the Company's single reporting unit over the fair value of its assets and liabilities. As a result of the step-two test, the Company recorded a non-cash impairment charge of \$9.9 million during the fourth quarter of 2016.

Revenue Recognition

General

The Company generates revenue from the sales of IC products and licensing of its IP. The Company recognizes revenue when persuasive evidence of an arrangement exists, delivery or performance has occurred, the sales price is fixed or determinable, and collectibility is reasonably assured. Evidence of an arrangement generally consists of signed agreements or customer purchase orders.

IC products

The Company sells products both directly to customers, as well as through distributors. Revenue from sales directly to customers is generally recognized at the time of shipment. The Company may record an estimated allowance, at the time of shipment, for future returns and other charges against revenue consistent with the terms of sale. IC product revenue and costs relating to sales made through distributors with rights of return or stock rotation are generally deferred until the distributors sell the product to end customers due to the Company's inability to estimate future returns and credits to be issued. Distributors are generally able to return up to 10% of their purchases for slow, non-moving or obsolete inventory for credit every six months. At the time of shipment to distributors, an accounts receivable for the selling price is recorded, as there is a legally enforceable right to receive payment, and inventory is relieved, as legal title to the inventory is transferred upon shipment. Revenues are recognized upon receiving notification from the distributors that products have been sold to end customers. Distributors provide information regarding products and quantity, end customer shipments and remaining inventory on hand. The associated deferred margin is included in the accrued expenses and other line item in the consolidated balance sheets.

Royalty

The Company's licensing contracts typically also provide for royalties based on the licensees' use of the Company's memory technology in their currently shipping commercial products. The Company recognizes royalties in the quarter in which it receives the licensees' reports.

Licensing

Licensing revenue consists of fees earned from license agreements, development services and support and maintenance. For stand-alone license agreements or license deliverables in multi-deliverable arrangements that do not require significant development, modification or customization, revenues are recognized when all revenue recognition criteria have been met. Delivery of the licensed technology is typically the final revenue recognition criterion met, at which time revenue is recognized. If any of the criteria are not met, revenue recognition is deferred until such time as all criteria have been met. Support and maintenance revenue is recognized ratably over the period during which the obligation exists, typically 12 months. Licensing revenue was zero for the years ended December 31, 2016 and 2015,

and was \$155,000 for the year ended December 31, 2014.

Cost of Net Revenue

Cost of net revenue consists primarily of direct and indirect costs of IC product sales and engineering personnel costs directly related to maintenance and support services specified in licensing agreements. Maintenance and support typically includes engineering support to assist in the commencement of production of a licensee's products.

Advertising Costs

Advertising costs are expensed as incurred. Advertising costs were not significant in the years ended December 31, 2016, 2015 and 2014.

Research and Development

Engineering costs are recorded as research and development expense in the period incurred.

Stock-Based Compensation

The Company recognizes stock-based compensation for awards on a straight-line basis over the requisite service period, usually the vesting period, based on the grant-date fair value.

The Company records stock-based compensation expense for stock options granted to non-employees, excluding non-employee directors, based upon the estimated then-current fair value of the equity instrument using the Black-Scholes pricing model. Assumptions used to value the equity instruments are consistent with equity instruments issued to employees. The Company charges the value of the equity instrument to earnings over the term of the service agreement and the unvested shares underlying the option are subject to periodic revaluation over the remaining vesting period.

Per Share Amounts

Basic net loss per share is computed by dividing net loss for the period by the weighted-average number of shares of common stock outstanding during the period. Diluted net loss per share gives effect to all potentially dilutive common shares outstanding during the period. Potentially dilutive common shares consist of incremental shares of common stock issuable upon the exercise of stock options, vesting of stock awards and purchases under the employee stock purchase plan. The following table sets forth securities outstanding which were excluded from the computation of diluted net loss per share as their inclusion would be anti-dilutive (in thousands):

	December 31, 2016	December 31, 2015	December 31, 2014
Options outstanding to purchase common stock	522	839	822
Employee stock purchase plan	44	44	21
Unvested restricted common stock units	148	24	39
Convertible debt	926		
Total	1,640	907	882

Income Taxes

The Company determines deferred tax assets and liabilities based upon the differences between the financial statement and tax bases of the Company's assets and liabilities using tax rates in effect for the year in which the Company expects the differences to affect taxable income. A valuation allowance is established for any deferred tax assets for which it is more likely than not that all or a portion of the deferred tax assets will not be realized.

The Company files U.S. federal and state and foreign income tax returns in jurisdictions with varying statutes of limitations. The 2006 through 2016 tax years generally remain subject to examination by federal, state and foreign tax authorities.

As of December 31, 2016, the Company did not have any unrecognized tax benefits nor expect its unrecognized tax benefits to change significantly over the next 12 months. The Company recognizes interest related to unrecognized tax benefits in its income tax expense and penalties related to unrecognized tax benefits as other income and expenses. During

the years ended December 31, 2016, 2015 and 2014, the Company did not recognize any interest or penalties related to unrecognized tax benefits.

Comprehensive Loss

Comprehensive loss includes unrealized gains and losses on available-for-sale securities. Realized gains and losses on available-for-sale securities are reclassified from accumulated other comprehensive loss and included in other income, net in the consolidated statements of operations and comprehensive loss. All amounts recorded were not significant in the years ended December 31, 2016, 2015 and 2014.

Recent Accounting Pronouncements

In May 2014, the FASB issued ASU No. 2014-09 (ASU 2014-09), Revenue from Contracts with Customers, which requires an entity to recognize the amount of revenue to which it expects to be entitled for the transfer of promised goods and services to customers. In March, April and May 2016, the FASB issued additional updates to the new revenue standard relating to reporting revenue on a gross versus net basis, identifying performance obligations and licensing arrangements, and narrow-scope improvements and practical expedients, respectively. ASU 2014-09 will replace most existing revenue recognition guidance in U.S. GAAP when it becomes effective. The accounting standard is effective for annual reporting periods (including interim reporting periods within those periods) beginning after December 15, 2017. Early adoption is permitted for annual reporting periods (including interim reporting periods within those periods) beginning after December 15, 2016. ASU 2014-09 provides for one of two methods of transition: retrospective application to each prior period presented; or recognition of the cumulative effect of retrospective application of the new standard in the period of initial application. The Company does not intend to early adopt this standard and plans to use the full retrospective approach to the transition. The Company does not expect that the adoption of ASU 2014-09 will have a material impact on its consolidated financial statements. However, assuming all other revenue recognition criteria have been met, it is likely that ASU 2014-09 would require the Company to recognize revenue and cost relating to distributor sales upon product delivery, subject to estimated allowances for distributor price adjustments and rights of return.

In February 2016, the FASB issued ASU No. 2016-02 (ASU 2016-02), Leases. ASU 2016-02 requires lessees to recognize a right-of-use asset and a lease liability equal to the present value of the lease payments for virtually all leases not classified as short term. Consistent with current U.S. GAAP, the recognition, measurement, and presentation of expenses and cash flows arising from a lease by a lessee primarily depend on its classification as a finance or operating lease. The ASU also will require disclosures to provide additional qualitative and quantitative information about the amounts recorded in the financial statements. ASU 2016-02 is effective for annual and interim reporting periods beginning after December 15, 2018, with early adoption permitted. The new standard requires a modified retrospective transition for application at the beginning of the earliest comparative period presented. The Company is currently evaluating the impact that ASU 2016-02 will have on its consolidated financial statements and related disclosures.

Note 2: Consolidated Balance Sheets and Statements of Operations and Comprehensive Loss Components

	December 31,		
	2016	2015	
	(in thousand	s)	
Inventories:			
Work-in-process	\$ 1,270	\$ 1,478	
Finished goods	181	119	
	\$ 1,451	\$ 1,597	
Prepaid expenses and other:			
Prepaid software	\$ 250	\$ 287	
Prepaid insurance	116	134	
Interest receivable	17	48	
Prepaid expenses and other	90	232	
	\$ 473	\$ 701	
Property and equipment, net:			
Equipment, furniture and fixtures and leasehold improvements	\$ 5,906	\$ 5,646	
Acquired software	304	334	
	6,210	5,980	
Less: Accumulated depreciation and amortization	(4,936)	(4,350)	
	\$ 1,274	\$ 1,630	

Intangible assets, net:

Identifiable intangible assets were (dollar amounts in thousands):

Patent license	Life (years) 7	Gross Carrying Amount \$ 780	Accumulated Amortization \$ 557	Net Carrying Amount \$ 223
	December	31, 2015		
		Gross		Net
	Life (years)	Carrying Amount	Accumulated Amortization	Carrying Amount
Patent license	7	\$ 780	\$ 446	\$ 334

Amortization expense has been included in research and development expense in the consolidated statements of operations and comprehensive loss. The estimated aggregate amortization expense to be recognized in future years is approximately \$0.1 million annually for 2017 through 2018.

Accrued expenses and other:

	December 31,	
	2016 2015	
	(in thousa	nds)
Accrued wages and employee benefits	\$ 1,051	\$ 1,076
IC development and wafer costs	598	921
Interest payable	314	_
Professional fees and consulting	282	158
Deferred revenue	271	31
Employee stock purchase plan withholdings	200	323
Capital lease obligation		138
Other	57	17
	\$ 2,773	\$ 2,664

As of December 31, 2016 and 2015, the amounts in long-term liabilities comprised deferred rent.

Note 3: Fair Value of Financial Instruments

The estimated fair values of financial instruments outstanding were (in thousands):

	December	31, 2016		
		Unrealized	Unrealized	Fair
	Cost	Gains	Losses	Value
Cash and cash equivalents	\$ 8,766	\$ —	\$ —	\$ 8,766
Short-term investments:				
U.S. government-sponsored enterprise bonds	\$ 762	\$ —	\$ —	\$ 762
Corporate notes	240		_	240
Total short-term investments	\$ 1,002	\$ —	\$ —	\$ 1,002
	December 3	31, 2015		
		Unrealized	Unrealized	Fair
	Cost	Gains	Losses	Value
Cash and cash equivalents	\$ 5,640	\$ —	\$ —	\$ 5,640

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Short tarm	investments:
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U.S. government-sponsored enterprise bonds	\$ 6,243	\$ _	\$ —	\$ 6,243
Municipal bonds	200			200
Corporate notes	8,171		(16)	8,155
Total short-term investments	\$ 14,614	\$ 	\$ (16)	\$ 14,598

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The unrealized losses from available-for-sale securities as of December 31, 2016 and 2015 were not material.

The estimated fair values of available-for-sale securities with unrealized losses as of December 31, 2015 were (in thousands):

	December		
		Unrealized	Fair
	Cost	Losses	Value
Short-term investments:			
Corporate notes	\$ 8,171	\$ (16)	\$ 8,155
Total short-term investments	\$ 8,171	\$ (16)	\$ 8,155

As of December 31, 2015, substantially all of the available-for-sale securities with unrealized losses had been in a loss position for less than 12 months.

Cost and fair value of investments based on two maturity groups were (in thousands):

	December	31, 2016 Unrealized	Unrealized	Fair
Due within 1 ween	Cost \$ 1,002	Gains \$ —	Losses \$ —	Value \$ 1,002
Due within 1 year	ψ 1,002	ψ —	ψ —	ψ 1,002
	December 3	*		
		Unrealized	Unrealized	Fair
	Cost	Gains	Losses	Value
Due within 1 year	\$ 14,614	\$ —	\$ (16)	\$ 14,598

The following table represents the Company's fair value hierarchy for its financial assets (cash equivalents and investments) as of December 31, 2016 and 2015 (in thousands):

	December 31, 2016			
	Fair Value	Level 1	Level 2	Level 3
Money market funds	\$ 84	\$ 84	\$ —	\$ —
U.S. government-sponsored enterprise bonds	3,767	_	3,767	_
Municipal bonds	4,027	_	4,027	
Corporate notes	480	_	480	_
Total assets	\$ 8,358	\$ 84	\$ 8,274	\$ —

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	December 31, 2015			
	Fair Value	Level 1	Level 2	Level 3
Money market funds	\$ 2,238	\$ 2,238	\$ —	\$ —
U.S. government-sponsored enterprise bonds	7,525		7,525	_
Municipal bonds	200	_	200	_
Corporate notes	8,255		8,255	_
Certificates of deposit	240		240	_
Total assets	\$ 18,458	\$ 2,238	\$ 16,220	\$ —

There were no transfers in or out of Level 1 and Level 2 securities during the years ended December 31, 2016 and 2015.

Note 4: Income Taxes

The income tax provision consisted of the following (in thousands):

	Year Eı	nded	
	December 31,		
	2016	2015	2014
Current portion:			
Federal	\$ —	\$ —	\$ —
State	3	3	3
Foreign	42	83	104
-	\$ 45	\$ 86	\$ 107

Deferred income taxes reflect the net tax effects of temporary differences between the carrying amount of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes.

Significant components of the Company's deferred tax assets and liabilities were (in thousands):

	December 31,	
	2016	2015
Deferred tax assets:		
Federal and state loss carryforwards	\$ 68,829	\$ 60,831
Reserves, accruals and other	519	761
Depreciation and amortization	1,718	1,304
Deferred stock-based compensation	4,287	4,504
Research and development credit carryforwards	13,867	12,886
Foreign tax and other credits	536	1,131
Total deferred tax assets	89,756	81,417
Deferred tax liabilities:		
Acquired intangible assets and other	328	1,781
Less: Valuation allowance	(89,428)	(79,636)
Net deferred tax assets	\$ —	\$ —

The valuation allowance increased by \$9.8 million and \$12.9 million for the years ended December 31, 2016 and 2015, respectively.

As of December 31, 2016, the Company had net operating loss carryforwards (NOLs) of approximately \$184.1 million for federal income tax purposes and approximately \$116.5 million for state income tax purposes. These losses are available to reduce future taxable income and expire at various times from 2017 through 2036. Approximately \$5.7 million of federal net operating loss carryforwards and \$4.8 million of state net operating loss carryforwards are related to excess tax benefits from stock-based compensation and would be charged to additional paid-in capital, if realized.

The Company also had federal research and development tax credit carryforwards of approximately \$8.8 million, which will begin expiring in 2018, and California research and development credits of approximately \$7.8 million, which do not have an expiration date. The Company had remaining foreign tax credits available for federal income tax purposes of approximately \$0.3 million, which will began expiring in 2017.

Utilization of the Company's net operating loss and tax credit carryforwards may be subject to a substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code (IRC); and similar state provisions. Section 382 of the IRC (Section 382) imposes limitations on a corporation's ability to utilize its NOLs, if it experiences an "ownership change." In general terms, an ownership change may result from transactions increasing the ownership percentage of certain stockholders in the stock of the corporation by more than 50% over a three year period.

In the event of an ownership change, utilization of the NOLs would be subject to an annual limitation under Section 382 determined by multiplying the value of the Company's stock at the time of the ownership change by the applicable long-term tax exempt rate. The Company has not completed a Section 382 study in recent years; however, should a study be completed, certain NOLs may be subject to such limitations. Any future annual limitation may result in the expiration of NOLs before utilization.

The Company considers its undistributed earnings of its foreign subsidiary permanently reinvested in foreign operations and has not provided for U.S. income taxes on such earnings. As of December 31, 2016, the Company's unremitted earnings from its foreign subsidiary were \$1.0 million. The determination of the unrecognized deferred U.S. income tax liability, if any, is not practicable.

A reconciliation of income taxes provided at the federal statutory rate (35%) to the actual income tax provision follows (in thousands):

	Year Ended December 31,		
	2016	2015	2014
Income tax benefit computed at U.S. statutory rate	\$ (11,229)	\$ (10,989)	\$ (11,401)
State income tax (net of federal benefit)	3	3	3
Foreign income tax at rate different from U.S. statutory rate	(7)	(15)	(12)
Research and development credits	(981)	(1,580)	(1,614)
Stock-based compensation	75	123	130
Amortization of intangible assets	(100)	(100)	(100)
Goodwill impairment	1,856		
Valuation allowance changes affecting tax provision	10,022	12,588	13,027
Other	406	56	74
Income tax provision	\$ 45	\$ 86	\$ 107

The domestic and foreign components of (loss) income before income tax provision were (in thousands):

	Year Ended December 31,				
	2016	2015	2014		
U.S.	\$ (31,115)	\$ (31,580)	\$ (32,735)		
Non-U.S	(888)	183	160		
	\$ (32,003)	\$ (31,397)	\$ (32,575)		

Equity Compensation Plans

Common Stock Option Plans

In 2000, the Company adopted the 2000 Stock Plan, which was amended in 2004 (Amended 2000 Plan), and terminated in 2010. As of December 31, 2016, no options were available for future issuance under the Amended 2000 Plan, as the remaining options outstanding under the Amended 2000 Plan expired in June 2016.

In June 2010, the Company's stockholders approved the 2010 Equity Incentive Plan, which was amended in 2014 (Amended 2010 Plan). The Amended 2010 Plan authorizes the board of directors or the compensation committee of the board of directors to grant a broad range of awards including stock options, stock appreciation rights, restricted stock,

performance-based awards, and restricted stock units. Under the Amended 2010 Plan, 400,000 shares were initially reserved for issuance. In June 2014, the Company's stockholders approved an amendment increasing the number of shares reserved for issuance by 150,000 shares. In addition, the terms of the Amended 2010 Plan provide for an automatic annual increase in the share reserve of 50,000 on January 1 of each year. The Amended 2010 Plan has a 10 year term and provides for annual option grants or other awards to non-employee directors to acquire up to 4,000 shares and for a one-time grant of an option or other award to a non-employee director to acquire up to 12,000 shares upon initial appointment or election to the board of directors. The term of options granted under the Amended 2010 Plan may not exceed ten years. The term of all incentive stock options granted to a person who, at the time of grant, owns stock representing more than 10% of the voting power of all classes of the Company's stock may not exceed five years.

The exercise price of stock options granted under the Amended 2010 Plan must be at least equal to the fair market value of the shares on the date of grant. Generally, options granted under the Amended 2010 Plan will vest over a four-year period and will have a six or ten-year term. In addition, the Amended 2010 Plan provides for automatic acceleration of vesting for options granted to non-employee directors upon a change of control of the Company.

The Amended 2000 Plan and Amended 2010 Plan are referred to collectively as the "Plans."

The Company may also award shares to new employees outside the Plans, as material inducements to the acceptance of employment with the Company, as permitted under the Listing Rules of the Nasdaq Stock Market. These grants must be approved by the compensation committee of the board of directors, a majority of the independent directors or, below a specified share level, by an authorized executive officer. As of December 31, 2016, no such grants were outstanding.

Employee Stock Purchase Plan

In June 2010, the Company's stockholders approved the 2010 Employee Stock Purchase Plan (ESPP). A total of 200,000 shares of common stock were initially reserved for issuance under the ESPP in 2010. On September 1, 2010, the Company commenced the first offering period under the ESPP. In May 2015, the Company's stockholders approved an amendment increasing the number of shares reserved for issuance by 200,000 shares. The ESPP, which is intended to qualify under Section 423 of the Internal Revenue Code, is administered by the board of directors or the compensation committee of the board of directors. The ESPP provides that eligible employees may purchase up to \$25,000 worth of the Company's common stock annually over the course of two six-month offering periods. The purchase price to be paid by participants is 85% of the price per share of the Company's common stock either at the beginning or the end of each six-month offering period, whichever is less.

On February 29, 2016, approximately 37,300 shares of common stock were issued at an aggregate purchase price of \$197,000 under the ESPP. On August 31, 2016, approximately 31,900 shares of common stock were issued at an aggregate purchase price of \$167,000 under the ESPP. As of December 31, 2016, there were approximately 150,000 shares authorized and unissued under the ESPP. In February 2017, the Company's board of directors canceled the current purchase period under the ESPP, decided not to authorize a new purchase period and directed the Company to refund payroll contributions made under the ESPP during the purchase period that began September 1, 2016.

Stock-Based Compensation Expense

The unamortized compensation cost, net of expected forfeitures, as of December 31, 2016 was \$2.6 million related to stock options and is expected to be recognized as expense over a weighted average period of approximately 2.6 years. The unamortized compensation cost, net of expected forfeitures, as of December 31, 2016 was \$0.6 million related to restricted stock units and is expected to be recognized as expense over a weighted average period of approximately 2.0

years. For the year ended December 31, 2016 the fair value of options and awards vested was approximately \$2.0 million.

The Company is required to present the tax benefits resulting from tax deductions in excess of the compensation cost recognized from the exercise of stock options as financing cash flows in the consolidated statements of cash flows. For the years ended December 31, 2016, 2015 and 2014, there were no such tax benefits associated with the exercise of stock options.

Valuation Assumptions and Expense Information for Stock-based Compensation

The fair value of the Company's share-based payment awards for the years ended December 31, 2016, 2015 and 2014 was estimated on the grant dates using the Black-Scholes valuation option-pricing model with the following assumptions:

Year Ended December 31,				
Employee stock options:	2016	2015	2014	
Risk-free interest rate	1% - 2.1%	0.6% -1.7%	1.3% - 1.7%	
Volatility	61.4% - 65.0%	55.7% - 59.3%	53.7% - 57.5%	
Expected life (years)	3.0 - 5.0	3.0 - 5.0	4.0 - 5.0	
Dividend yield	0%	0%	0%	

The risk-free interest rate was derived from the Daily Treasury Yield Curve Rates as published by the U.S. Department of the Treasury as of the grant date for terms equal to the expected terms of the options. The expected volatility was based on the historical volatility of the Company's stock price over the expected term of the options. The expected term of options granted was derived from historical data based on employee exercises and post-vesting employment termination behavior. A dividend yield of zero is applied because the Company has never paid dividends and has no intention to pay dividends in the near future.

The stock-based compensation expense recorded is adjusted based on estimated forfeiture rates. An annualized forfeiture rate has been used as a best estimate of future forfeitures based on the Company's historical forfeiture experience. The stock-based compensation expense will be adjusted in later periods if the actual forfeiture rate is different from the estimate.

Common Stock Options and Restricted Stock

A summary of option activity under the Plans is presented below (in thousands, except exercise price):

		Options outs	tanding
			Weighted
	Shares		Average
	Available	Number of	Exercise
	for Grant	Shares	Prices
Balance at January 1, 2014	42	672	\$ 38.64
Additional shares authorized under the Amended 2010 Plan	200		
Restricted stock units granted	(50)		
Options granted	(17)	17	\$ 35.34
Options cancelled and returned to Plan	49	(49)	\$ 43.08
Options exercised	_	(41)	\$ 30.64
Options expired	(48)		\$ 43.20
Balance at December 31, 2014	176	599	\$ 38.73
Additional shares authorized under the Amended 2010 Plan	50		
Restricted stock units cancelled and returned to Plan	2		
Options granted	(154)	154	\$ 20.22
Options cancelled and returned to Plan	70	(70)	\$ 35.23
Options exercised	_	(8)	\$ 16.37
Options expired	(38)		\$ 32.00
Balance at December 31, 2015	106	675	\$ 35.14
Additional shares authorized under the Amended 2010 Plan	50		
Restricted stock units granted	(144)		
Restricted stock units cancelled and returned to Plan	7		
Options granted	(384)	384	\$ 6.96
Options cancelled and returned to Plan	479	(479)	\$ 35.64
Options cancelled and expired		(58)	\$ 44.80
Balance at December 31, 2016	114	522	\$ 13.88

A summary of the inducement grant option activity is presented below (in thousands, except exercise price):

	Options Outstanding	
		Weighted
		Average
	Number of	Exercise
	Shares	Prices
Balance at January 1, 2014	318	\$ 44.23
Granted	41	\$ 36.80
Exercised	(7)	\$ 25.87
Expired	(129)	\$ 55.75
Balance at December 31, 2014	223	\$ 36.78
Exercised	(52)	\$ 15.48
Expired	(7)	\$ 31.79
Balance at December 31, 2015	164	\$ 43.74
Cancelled	(164)	\$ 43.74

Balance at December 31, 2016 — \$ —

On July 26, 2016, the Company initiated a one-time option exchange program pursuant to which employees (excluding the chief executive officer and non-employees, including members of the Company's board of directors) who held certain options to purchase shares of the Company's common stock (such options, eligible options) were given the opportunity to exchange such eligible options for a lesser number of replacement options with a lower exercise price. Upon the expiration of the option exchange program on August 23, 2016, the Company accepted for cancellation exchanged options to purchase an aggregate of 456,995 shares of common stock and issued replacement options covering 334,027 shares of common stock from the Amended 2010 Plan. The exchanged eligible options included options to purchase 113,531 shares of the Company's common stock, which were originally inducement grants. The replacement options have an exercise price of \$7.20 per share and vest monthly over three years. This one-time option exchange was treated as a modification for accounting purposes and resulted in incremental expense of approximately \$926,000, which was calculated using the Black-Scholes option pricing model. The incremental expense and the unamortized expense remaining on the exchanged options are being amortized over the three-year vesting period of the replacement options.

A summary of restricted stock unit activity under the Plans is presented below (in thousands, except fair value):

	Number of Shares	Weighted Average Grant-Date Fair Value
Non-vested shares at January 1, 2014	2	\$ 44.60
Granted	50	\$ 46.11
Vested	(13)	\$ 45.83
Cancelled		\$ 46.20
Non-vested shares at December 31, 2014	39	\$ 46.11
Vested	(13)	\$ 45.97
Cancelled	(2)	\$ 46.20
Non-vested shares at December 31, 2015	24	\$ 46.17
Granted	144	\$ 5.30
Vested	(12)	\$ 46.06
Cancelled	(8)	\$ 15.67
Non-vested shares at December 31, 2016	148	\$ 8.13

The total intrinsic value of the restricted stock units outstanding as of December 31, 2016 was \$0.3 million.

The following table summarizes significant ranges of outstanding and exercisable options as of December 31, 2016 (in thousands, except contractual life and exercise price):

	Options Outstanding Weighted Average		Options Exercisa		cisable		
	Number	Remaining Contractual Life	Weighted Average Exercise	Number	Weighted Average Exercise		gregate rinsic
Range of Exercise Price	Outstanding	(in Years)	Price	Exercisable	Price	val	
\$3.80 - \$7.19	45	8.68	\$ 5.12	8	\$ 5.30		
\$7.20 - \$16.99	325	9.39	\$ 7.20	36	\$ 7.20		
\$17.00 - \$30.99	84	6.33	\$ 22.39	66	\$ 22.92		
\$31-00 - \$54.29	58	2.72	\$ 38.41	57	\$ 38.32		
\$54.30 - \$61.09	6	0.50	\$ 54.30	6	\$ 54.30		
\$61.10 - \$61.10	4	0.32	\$ 61.10	4	\$ 61.10		
\$3.80 - \$61.10	522	7.82	\$ 13.88	177	\$ 25.83	\$	
Vested and expected to vest	522	7.82	\$ 14.34			\$	
Exercisable	177	5.38	\$ 25.83			\$	_

There were no stock options exercised during the year ended December 31, 2016. The aggregate intrinsic value of employee stock options exercised during the years ended December 31, 2015 and 2014 was \$0.3 million and \$0.8 million, respectively.

Note 6: Stockholders' Equity

In March 2015, the Company completed a public offering and issued approximately 1,437,000 shares of its common stock for approximately \$21.4 million in net proceeds. Two of the Company's executive officers between them purchased a total of 40,625 shares at the public offering price.

Stockholder Rights Plan

On November 10, 2010, the Company executed a rights agreement in connection with the declaration by the Company's board of directors of a dividend of one preferred stock purchase right (a Right) to be paid on November 10, 2010 (the Record Date) for each share of the Company's common stock issued and outstanding at the close of business on the Record Date. Each Right entitles the registered holder to purchase one one-thousandth of a share of Series AA Preferred Stock, \$0.01 par value per share (a Preferred Share), of the Company at a price of \$4.80 per one one-thousandth of a Preferred Share, subject to adjustment. The rights will not be exercisable until a third party acquires 15.0% of the Company's common stock or commences or announces its intent to commence a tender offer for at least 15.0% of the common stock, other than holders of "grandfathered stock" as defined below.

"Grandfathered stock" refers to stock held by Carl E. Berg and his affiliates. The beneficial ownership threshold for a holder of grandfathered stock is 20%, rather than 15%. Under the rights agreement, certain shares beneficially owned by the firm of Ingalls & Snyder, or I&S, and its managed account beneficial owners collectively will not count toward the 15% beneficial ownership threshold that would trigger the rights as long as none of such shares are held for the

purpose of acquiring control or effecting change or influence in control of the Company. Further, this exclusion applies only to shares of common stock for which I&S possesses only shared dispositive power and non-discretionary voting power. The rights agreement could delay, deter or prevent an investor from acquiring the Company in a transaction that could otherwise result in its stockholders receiving a premium over the market price for their shares of common stock.

Note 7: Retirement Savings Plan

Effective January 1997, the Company adopted the MoSys 401(k) Plan (the Savings Plan) which qualifies as a thrift plan under Section 401(k) of the Internal Revenue Code. Full-time and part-time employees who are at least 21 years of age are eligible to participate in the Savings Plan at the time of hire. Participants may contribute up to 15% of their earnings to the Savings Plan. No matching contributions were made by the Company in the years ended December 31, 2016, 2015 and 2014.

Note 8: Business Segments, Concentration of Credit Risk and Significant Customers

The Company operates in one business segment and uses one measurement of profitability for its business. Revenue attributed to the United States and to all foreign countries is based on the geographical location of the customer.

Financial instruments that potentially subject the Company to significant concentrations of credit risk consist principally of cash, cash equivalents, short-term and long-term investments and accounts receivable. Cash, cash equivalents and short-term and long term investments are deposited with high credit-quality institutions.

The Company recognized revenue from licensing of its technologies and shipment of ICs to customers in North America, Asia and Europe as follows (in thousands):

	Year Ended December 31,			
	2016	2015	2014	
North America	\$ 3,816	\$ 2,222	\$ 1,485	
Japan	1,303	667	1,961	
Taiwan	804	1,396	1,894	
Rest of world	101	105	40	
Total net revenue	\$ 6,024	\$ 4,390	\$ 5,380	

Customers who accounted for at least 10% of total net revenues were:

Years Ended						
	December 31,					
	2016)	2015	5	2014	1
Customer A	47	%	34		*	
Customer B	21	%	12	%	31	%
Customer C	13	%	31	%	34	%
Customer D	*		*		11	%

^{*}Represents percentage less than 10%.

One customer accounted for 72% of net accounts receivable at December 31, 2016. Three customers accounted for 94% of net accounts receivable at December 31, 2015.

Net long-lived assets (property and equipment), classified by major geographic areas, was (in thousands):

	December 31,			
	2016	2015		
	(in thousands)			
U.S.	\$ 1,274	\$ 1,578		
Non-U.S.		52		
Total	\$ 1,274	\$ 1,630		

Note 9: Commitments and Contingencies

Leases and Purchase Commitments

The Company leases its facilities under non-cancelable operating leases that expire at various dates through 2020. Rent expense was approximately \$783,000, \$798,000 and \$802,000 for the years ended December 31, 2016, 2015 and 2014, respectively. The leases provide for monthly payments and are being charged to operations ratably over the lease terms. In addition to the minimum lease payments, the Company is responsible for property taxes, insurance and certain other operating costs.

Future minimum lease payments under non-cancelable operating leases and purchase commitments are (in thousands):

	Operating	Purchase	
Year ended December 31,	leases	commitments	Total
2017	\$ 753	\$ 760	\$ 1,513
2018	781	344	1,125
2019	756	_	756
2020	514	_	514
2021			
Total minimum payments	\$ 2,804	\$ 1,104	\$ 3,908

Purchase commitments include software licenses related to computer-aided design software payable through 2018.

Indemnification

In the ordinary course of business, the Company enters into contractual arrangements under which it may agree to indemnify the counterparties from any losses incurred relating to breach of representations and warranties, failure to perform certain covenants, or claims and losses arising from certain events as outlined within the particular contract, which may include, for example, losses arising from litigation or claims relating to past performance. Such indemnification clauses may not be subject to maximum loss clauses. The Company has entered into indemnification agreements with its officers and directors. No material amounts were reflected in the Company's consolidated financial statements for the years ended December 31, 2016, 2015 or 2014 related to these indemnifications.

The Company has not estimated the maximum potential amount of indemnification liability under these agreements due to the limited history of prior claims and the unique facts and circumstances applicable to each particular agreement. To date, the Company has not made any payments related to these indemnification agreements.

Legal Matters

The Company is not a party to any material legal proceeding that the Company believes is likely to have a material adverse effect on its consolidated financial position or results of operations. From time to time, the Company may be subject to legal proceedings and claims in the ordinary course of business. These claims, even if not meritorious, could result in the expenditure of significant financial resources and diversion of management efforts.

Note 10: Restructuring

In the first quarter of 2016, the Company effected a reduction in its workforce and associated operating expenses, net loss and cash burn and realigned resources, as the Company had substantially concluded development of new products, including its third generation Bandwidth Engine IC product family, and brought these products to market in 2016. The Company reduced United States headcount by 12 positions and ceased operations at its subsidiary in Hyderabad, India, which had 18 employees. As a result of these reductions, the Company incurred total charges of approximately \$0.7

million, including \$0.6 million of charges for severance benefits and other one-time termination costs. The remaining charges represent lease obligations, asset impairments and other expenses related to the Company's Indian subsidiary. Substantially all of these charges were realized and resulted in cash expenditures of \$0.6 million in the first quarter of 2016. Expenses related to the restructure are included in the restructuring charges line on the condensed consolidated statements of operations and comprehensive loss and the remaining liability is included in accrued expenses and other on the condensed consolidated balance sheet consisting of (in thousands):

	Workforce	Facility related and other termination	
	reduction	costs	Total
Balance as of December 31, 2015	\$ —	\$ —	\$ —
Restructuring charge	561	115	676
Non-cash settlements		(46)	(46)
Cash payments	(561)	(64)	(625)
Balance as of December 31, 2016	\$ —	\$ 5	\$ 5

Note 11: Convertible Notes

On March 14, 2016, the Company entered into a 10% Senior Secured Convertible Note Purchase Agreement (the Purchase Agreement) with the purchasers of \$8,000,000 principal amount of 10% Senior Secured Convertible Notes due August 15, 2018 (the Notes), at par, in a private placement transaction effected pursuant to an exemption from the registration requirements under the Securities Act of 1933, as amended. The conversion price of the Notes is \$9.00 per share and is subject to adjustment upon certain events, as set forth in the Purchase Agreement. Pursuant to a security agreement entered into by the Company, the Notes are secured by a security interest in all of the assets of the Company.

The Notes bear interest at the annual rate of 10%. Accrued interest is payable semi-annually in cash or in kind through the issuance of identical new Notes, or with a combination of the two, at the Company's option. The Notes are noncallable and nonredeemable by the Company. The Notes are redeemable at the election of the holders if the Company experiences a fundamental change (as defined in the Notes), which generally would occur in the event (i) any person acquires beneficial ownership of shares of common stock of the Company entitling such person to exercise at least 40% of the total voting power of all of the shares of capital stock of the Company entitled to vote generally in elections of directors, (ii) an acquisition of the Company by another person through a merger or consolidation, or the sale, transfer or lease of all or substantially all of the Company's assets, or (iii) the Company's current directors cease to constitute a majority of the board of directors of the Company within a 12-month period, disregarding for this purpose any director who voluntarily resigns as a director or dies while serving as a director. The redemption price is 120% of the principal amount of the Note to be repurchased plus accrued and unpaid interest as of the redemption date.

The conversion price of \$9.00 per share of common stock shall be reset, if, prior to the maturity date, the Company sells new shares of capital stock, or other securities convertible into or exercisable for capital stock, in a financing with one or more accredited investors that yields proceeds to the Company (net of transaction fees, expenses and discounts and commission) of at least \$1,000,000 at a price lower than the then applicable conversion price in effect immediately before the closing of such financing; provided that in no event shall the applicable conversion price be reset to less than \$8.50 per share of common stock. The Notes are subject to anti-dilution adjustments for stock splits, stock dividends, and the like.

No Note holder shall be entitled to convert such holder's Notes if effective upon the applicable conversion date (i) the holder would have beneficial ownership of more than 9.9% of the voting capital stock of the Company as determined in accordance with Rule 13d-3 under the Securities Exchange Act of 1934, as amended, (with exceptions specified in the Purchase Agreement), or (ii) if the shares are being acquired or held with a purpose or effect of changing or influencing control of the Company, or in connection with or as a participant in any transaction having that purpose or effect, as determined in the sole discretion of the board of directors of the Company. There is no required sinking fund for the Notes. The Notes have not been registered for resale, and the holder(s) do not have registration rights.

The Notes restrict the ability of the Company to incur any indebtedness for borrowed money, unless such indebtedness by its terms is expressly subordinated to the Notes in right of payment and to the security interest of the Note holder(s) in respect to the priority and enforcement of any security interest in property of the Company securing such new

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debt; provided that the Note holder(s) security interest and cash payment rights under the Notes shall be subordinate to a maximum of \$5,000,000 of indebtedness for a secured accounts receivable line of credit facility provided to the Company by a bank or institutional lender; and, provided further, that in no event may the amount of indebtedness to which the security interest of the Note holder(s) is subordinated exceed the outstanding balance of accounts receivable less than 90 days old for which the Company has not recorded an allowance for doubtful accounts pledged under such credit facility.

The Notes define an event of default generally as any failure by the Company to pay an amount owed under the Notes when due (subject to cure periods), a default with respect to other indebtedness of the Company resulting in acceleration of such indebtedness, the commencement of bankruptcy or insolvency proceedings, or the cessation of business. If an event of default occurs under the Notes, the holder(s) of a majority-in-interest of the outstanding principal amount of the Notes may declare the outstanding principal amount thereof to be immediately due and payable and pursue all available remedies, including taking possession of the assets of the Company and selling them to pay the amount of debt then due, plus expenses, in accordance with applicable laws and procedures.

The Company incurred debt issuance costs of approximately \$0.1 million, which were recorded as a debt discount and are being amortized to interest expense over the repayment period for the loan using the effective interest rate method. The interest expense related to the debt discount during the year ended December 31, 2016 was approximately \$37,000 and the remaining unamortized debt discount was approximately \$0.1 million.

In August 2016, the first semi-annual interest payment was made in-kind with the issue of an additional note (Interest Note) to the Purchasers. The Interest Note has a principal amount of approximately \$336,000 and has terms identical to the Notes. As of December 31, 2016, the Notes and Interest Note could be converted into a maximum of 980,649 shares of common stock at \$8.50 per share, excluding the effects of future payments of interest in-kind.

Future repayments on outstanding convertible notes payable (excluding unamortized discount of \$0.1 million as of December 31, 2016) are as follows: (in thousands):

Year ending December 31, 2017 \$ — 2018 \$ 8,336

\$ 8,336

Note 12: Related Party

In February 2012, the Company entered into a strategic development and marketing agreement with Credo Semiconductor (Hong Kong) Ltd. (Credo), a privately-funded, fabless semiconductor company, to develop, market and sell integrated circuits. Two of the Company's executive officers between them loaned a total of \$250,000 to Credo for a portion of the seed funding needed by Credo to commence its integrated circuit design efforts. These loans were repaid by Credo in August 2015. The strategic development and marketing agreement, as amended, calls for the Company to make payments to Credo upon Credo achieving certain development and verification milestones towards the development of IC products and provides the Company with exclusive sales and marketing rights for such IC products. As of December 31, 2016, the Company has paid Credo \$4.8 million for achievement of development milestones, as well as for mask costs and wafer purchases from third-party vendors. All amounts incurred have been recorded as research and development expenses. Currently, under the strategic development and marketing agreement, the Company is entitled to a remaining reimbursement amount of \$3.5 million of development costs based on payments made to Credo to date. This amount is subject to increase as additional payments are made to Credo. The reimbursement will be funded by the gross profits earned by the Company from the sale of the products, with the initial gross profits being primarily applied to reimbursing the Company for these development payments and a portion paid to Credo. Once the full amount has been reimbursed, the gross profits will be shared equally by the Company and Credo.

Note 13: Subsequent Events

Reverse Stock Split

On February 14, 2017, the Company filed a certificate of amendment to its amended and restated certificate of incorporation with the Secretary of State of the State of Delaware to effect a one-for-ten reverse stock split of the Company's shares of common stock. Such amendment and ratio were previously approved by the Company's stockholders and board of directors, respectively.

On February 16, 2017, the Company effected the one-for-10 reverse stock split of its common stock. As a result of the reverse stock split, every ten shares of the Company's pre-reverse split outstanding common stock was combined and reclassified into one share of common stock. Proportionate voting rights and other rights of common stock holders were not affected by the reverse stock split. No fractional shares were issued in connection with the reverse stock split; stockholders who would otherwise hold a fractional share of common stock received cash in an amount equal to the product obtained by multiplying (i) the closing sale price of the Company's common stock on the effective date of the reverse stock split, by (ii) the number of shares of the Company's common stock held by the stockholder that would otherwise have been exchanged for the fractional share interest. All stock options and restricted stock units outstanding and common stock reserved for issuance under the Company's equity incentive plans immediately prior to the reverse stock split were adjusted by dividing the number of affected shares of common stock by 10 and, as applicable, multiplying the exercise price by 10, as a result of the reverse stock split. The common stock par value was adjusted to \$0.001 in conjunction with the reverse stock split.

Conversion of Interest Payable to Note

In February 2017, the Company made payment of interest on the Notes and the Interest Note for the period from August 2016 to February 15, 2017 in-kind with the issue of an additional note to the Purchasers (Interest Note 2). Interest Note 2 has a principal amount of approximately \$420,000 and has terms identical to the Notes and the Interest Note.

MOSYS, INC.

CONDENSED CONSOLIDATED BALANCE SHEETS

(Unaudited)

(In thousands, except par value)

	September 30, 2017		December 31, 2016	
ASSETS				
Current assets				
Cash and cash equivalents	\$	2,784	\$	8,766
Short-term investments				1,002
Accounts receivable, net		1,719		559
Inventories		1,246		1,451
Prepaid expenses and other		1,815		473
Total current assets		7,564		12,251
Description of a configuration of		740		1 274
Property and equipment, net		748		1,274
Goodwill		13,276		13,276
Intangible assets, net		139		223
Other		68		121
Total assets	\$	21,795	\$	27,145
LIABILITIES AND STOCKHOLDERS' EQUITY				
Current liabilities				
Accounts payable	\$	203	\$	561
Deferred revenue	·	2,360	·	271
Convertible notes payable		•		