

MoSys, Inc.
Form 10-Q
November 06, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 20549

FORM 10-Q

(Mark one)

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

For the quarterly period ended September 30, 2018

OR

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

For the transition period from to

Commission file number 000-32929

MOSYS, INC.

(Exact name of registrant as specified in its charter)

Delaware	77-0291941
(State or other jurisdiction	(I.R.S. Employer
of Incorporation or organization)	Identification Number)

2309 Bering Drive

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San Jose, California, 95131

(Address of principal executive office and zip code)

(408) 418-7500

(Registrant's telephone number, including area code)

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

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

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

Large accelerated filer	Accelerated filer
Non-accelerated filer	Smaller reporting company
Emerging Growth Company	

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

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

As of October 31, 2018, 41,640,586 shares of the Registrant's common stock, \$0.001 par value, were outstanding.

MOSYS, INC.

FORM 10-Q

September 30, 2018

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PART I—FINANCIAL INFORMATION

Item 1. Financial Statements

MOSYS, INC.

CONDENSED CONSOLIDATED BALANCE SHEETS

(Unaudited)

(In thousands, except par value)

	September 30, 2018	December 31, 2017
ASSETS		
Current assets		
Cash and cash equivalents	\$ 4,176	\$ 3,868
Accounts receivable	2,503	1,681
Inventories	1,371	1,766
Prepaid expenses and other	415	1,347
Total current assets	8,465	8,662
Property and equipment, net	386	827
Goodwill	10,117	13,276
Intangible assets, net	28	111
Other	413	263
Total assets	\$ 19,409	\$ 23,139
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities		
Accounts payable	\$ 140	\$ 170
Deferred revenue	1,565	3,938
Accrued expenses and other	1,835	2,507
Total current liabilities	3,540	6,615
Long-term liabilities	18	18
Convertible notes payable	10,036	9,160
Total liabilities	13,594	15,793
Commitments and contingencies (Note 4)		
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; 8,274 shares	8	8
and 8,068 shares issued and outstanding at September 30, 2018 and		

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December 31, 2017, respectively		
Additional paid-in capital	232,414	232,026
Accumulated deficit	(226,607)	(224,688)
Total stockholders' equity	5,815	7,346
Total liabilities and stockholders' equity	\$ 19,409	\$ 23,139

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

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MOSYS, INC.

CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS

(Unaudited)

(In thousands, except per share data)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2018	2017	2018	2017
Net revenue				
Product	\$4,056	\$2,231	\$11,811	\$4,297
Royalty and other	287	222	1,338	752
Total net revenue	4,343	2,453	13,149	5,049
Cost of net revenue	1,948	1,256	5,382	2,590
Gross profit	2,395	1,197	7,767	2,459
Operating expenses				
Research and development	1,023	1,436	3,064	7,234
Selling, general and administrative	919	1,244	3,158	3,659
Impairment of goodwill	3,159	—	3,159	—
Restructuring charges	—	50	—	1,052
Total operating expenses	5,101	2,730	9,381	11,945
Loss from operations	(2,706)	(1,533)	(1,614)	(9,486)
Interest expense	(104)	(238)	(531)	(685)
Other income, net	—	32	—	45
Loss before income taxes	(2,810)	(1,739)	(2,145)	(10,126)
Income tax provision	2	4	4	16
Net and comprehensive loss	\$(2,812)	\$(1,743)	\$(2,149)	\$(10,142)
Net loss per share				
Basic and diluted	\$(0.34)	\$(0.22)	\$(0.26)	\$(1.43)
Shares used in computing net loss per share				
Basic and diluted	8,240	7,938	8,181	7,092

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

MOSYS, INC.

CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(Unaudited)

(In thousands)

Nine Months
Ended
September 30,
2018 2017

Cash flows from operating activities:		
Net loss	\$(2,149)	\$(10,142)
Adjustments to reconcile net loss to net cash provided by (used in) operating activities:		
Depreciation and amortization	486	573
Stock-based compensation	446	552
Amortization of intangible assets	83	84
Impairment of goodwill	3,159	—
Amortization of debt issuance costs	30	33
Accrued interest	500	656
Gain on disposal of assets	—	(12)
Changes in assets and liabilities		
Accounts receivable	(822)	(1,160)
Inventories	395	205
Prepaid expenses and other assets	782	(1,289)
Accounts payable	(30)	(390)
Deferred revenue and other liabilities	(2,469)	1,931
Net cash provided by (used in) operating activities	411	(8,959)
Cash flows from investing activities:		
Purchases of property and equipment	(45)	(26)
Net proceeds from sale of assets	—	12
Proceeds from sales and maturities of marketable securities	—	2,604
Purchases of marketable securities	—	(1,602)
Net cash provided by (used in) investing activities	(45)	988
Cash flows from financing activities:		
Issuance costs for sale of common stock	(12)	—
Taxes paid to net share settle equity awards	(46)	—
Proceeds from the issuance of common stock	—	1,989
Net cash provided by (used in) financing activities	(58)	1,989
Net increase (decrease) in cash and cash equivalents	308	(5,982)
Cash and cash equivalents at beginning of period	3,868	8,766
Cash and cash equivalents at end of period	\$4,176	\$2,784
Supplemental disclosure:		
Issuance of convertible notes in settlement of accrued interest	\$846	\$854

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

MOSYS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

(Unaudited)

Note 1. The Company and Summary of Significant Accounting Policies

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. Its 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 Company’s future success and ability to achieve and maintain profitability depends on its success in developing a market for its ICs.

The accompanying condensed consolidated financial statements of the Company have been prepared without audit in accordance with the rules and regulations of the Securities and Exchange Commission (SEC).

The condensed consolidated balance sheet as of December 31, 2017 has been derived from the audited consolidated financial statements at that date. Certain information and disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States (GAAP) have been condensed or omitted in accordance with these rules and regulations. The information in this report should be read in conjunction with the Company’s consolidated financial statements and notes thereto included in its most recent annual report on Form 10-K filed with the SEC.

In the opinion of management, the accompanying unaudited condensed consolidated financial statements reflect all adjustments (consisting only of normal recurring adjustments) necessary to summarize fairly the Company’s financial position, results of operations and cash flows for the interim periods presented. The operating results for the three and nine months ended September 30, 2018 are not necessarily indicative of the results that may be expected for the year ending December 31, 2018 or for any other future period.

Basis of Presentation

The condensed 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.

Use of Estimates

The preparation of financial statements in accordance with GAAP 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.

Cash Equivalents and Investments

The Company invests its excess cash in money market accounts, certificates of deposit, commercial paper, 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 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 condensed 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 may include cash equivalents and available-for-sale securities, which consist 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 either September 30, 2018 or December 31, 2017.

Inventories

The Company values its inventories at the lower of cost, which approximates actual cost on a first-in, first-out basis, or net realizable 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 inventory write-downs during the three and nine months ended September 30, 2018 of \$0.1 million and no inventory write-downs during the three or nine months ended September 30, 2017.

Critical Accounting Policy – Revenue Recognition

The Company generates revenue primarily from sales of IC products and licensing of its IP. Revenues are recognized when control is transferred to customers in amounts that reflect the consideration the Company expects to be entitled to receive in exchange for those goods. Revenue recognition is evaluated through the following five steps: (i) identification of the contract, or contracts, with a customer; (ii) identification of the performance obligations in the

contract; (iii) determination of the transaction price; (iv) allocation of the transaction price to the performance obligations in the contract; and (v) recognition of revenue when or as a performance obligation is satisfied.

IC products

Revenue is recognized when performance obligations under the terms of a contract with a customer are satisfied.

The majority of the Company's contracts have a single performance obligation to transfer products. Accordingly, the Company recognizes revenue when title and risk of loss have been transferred to the customer, generally at the time of shipment of products. Revenue is measured as the amount of consideration the Company expects to receive in exchange for transferring products and is generally based upon a negotiated, formula, list or fixed price. The Company sells its

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products both directly to customers and through distributors generally under agreements with payment terms typically less than 60 days.

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.

Royalty and other

The Company's licensing contracts typically provide for royalties based on the licensee's use of the Company's memory technology in its currently shipping commercial products. With the adoption of Accounting Standards Codification (ASC) 606 in January 2018, the Company estimates its royalty revenue in the calendar quarter in which the licensee uses the licensed technology. Payments are generally received in the subsequent quarter.

Contract liabilities – deferred revenue

The Company's contract liabilities consist of advance customer payments and deferred revenue. The Company classifies advance customer payments and deferred revenue as current or non-current based on the timing of when the Company expects to recognize revenue. For the nine months ended September 30, 2018, contract liabilities were in a current position and included in deferred revenue.

During the nine months ended September 30, 2018, the Company recognized revenue of \$3.1 million that had been included in deferred revenue at December 31, 2017.

See Note 5 for disaggregation of revenue by geography.

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 include engineering support to assist in the commencement of production of a licensee's products.

Goodwill

In January 2017, the Financial Accounting Standards Board issued Accounting Standards Update (ASU) No. 2017-04, Simplifying the Test for Goodwill Impairment (ASU No. 2017-04), which eliminated step 2, the computation of the implied fair value of goodwill to determine the amount of impairment, from the goodwill impairment test. Under ASU No. 2017-04, the Company determines the amount of goodwill impairment by comparing the fair value of the reporting unit with its carrying amount. To the extent the carrying value of a reporting unit exceeds its fair value, a goodwill impairment charge is recognized. The Company early-adopted ASU No. 2017-04 effective January 1, 2017, because the ASU significantly simplifies the evaluation of goodwill for impairment.

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 determine the step one fair value, 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 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. 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. If the carrying value of the reporting unit's goodwill exceeds its fair value, then the Company must record an impairment charge equal to the difference. The Company performed its annual test for goodwill impairment as of September 1, 2018, and, due to a decrease in the price per share of its common stock, the test results indicated the goodwill carrying value was greater than its implied fair value. Further, the Company concluded a triggering event had occurred due to the sustained decrease in the price per share of its common stock and related reduced market capitalization as of September 30, 2018 and performed an additional test for impairment of its goodwill asset resulting in further indication that the goodwill

carrying value was still greater than its implied fair value. As a result of both of these tests, the Company recorded non-cash impairment charges of \$3.2 million during the third quarter of 2018.

Per Share Amounts

Basic net income (loss) per share is computed by dividing net income (loss) for the period by the weighted-average number of shares of common stock outstanding during the period. Diluted net income (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 shares issuable in conjunction with the Company's outstanding senior secured convertible notes.

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):

	September 30,	
	2018	2017
Options outstanding to purchase common stock	338	248
Unvested restricted common stock units	373	385
Convertible debt	2,361	1,021
Outstanding warrants	663	663
Total	3,735	2,317

Debt Issuance Costs

Debt issuance costs are capitalized and amortized to interest expense using the effective interest method. Unamortized debt issuance costs are presented in the condensed consolidated balance sheets as a direct deduction from the carrying amount of the related debt liability and accounted for as debt discounts.

Note 2: Fair Value of Financial Instruments

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

	September 30, 2018			
	Cost	Unrealized Gains	Unrealized Losses	Fair Value
Cash and cash equivalents	\$4,176	\$ —	\$ —	\$4,176

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	December 31, 2017			
	Cost	Unrealized Gains	Unrealized Losses	Fair Value
Cash and cash equivalents	\$3,868	\$ —	\$ —	\$3,868

The following table represents the Company's fair value hierarchy for its financial assets (cash equivalents and investments) (in thousands):

	September 30, 2018			
	Fair Value	Level 1	Level 2	Level 3
Money market funds	\$628	\$ 628	\$ —	\$ —

	December 31, 2017			
	Fair Value	Level 1	Level 2	Level 3
Money market funds	\$621	\$621	\$ —	\$ —

There were no transfers in or out of Level 1 and Level 2 securities during the three or nine months ended September 30, 2018 or 2017.

Note 3. Balance Sheet Detail

	September 30, 2018	December 31, 2017
(in thousands)		
Inventories:		
Work-in-process	\$ 897	\$ 1,612
Finished goods	474	154
	\$ 1,371	\$ 1,766

Identifiable intangible assets were (dollar amounts in thousands):

September 30, 2018				
	Life (years)	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
Patent license	7	\$ 780	\$ 752	\$ 28

December 31, 2017				
	Life (years)	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
Patent license	7	\$ 780	\$ 669	\$ 111

Amortization expense has been included in research and development expense in the condensed consolidated statements of operations and comprehensive loss. The remaining estimated aggregate amortization expense is less than \$0.1 million and will be recognized in 2018.

Note 4. Commitments and Contingencies

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 also entered into indemnification agreements with its officers and directors. No material amounts were reflected in the Company's condensed consolidated financial statements for the nine months ended September 30, 2018 or 2017 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 material payments related to these indemnification agreements.

Legal Matters

In October 2017, Trinity Technologies, Inc. (Trinity), the Company's former sales representative in the San Francisco Bay Area, filed a lawsuit against the Company in the Superior Court of California alleging non-payment of commissions. In April 2018, the Company and Trinity executed a settlement agreement, and Trinity dismissed the lawsuit. Under the terms of the settlement agreement, the Company agreed to pay Trinity for commissions related to both 2017 and 2018. Commissions for the period prior to April 1, 2018 were accrued as of March 31, 2018. Pursuant to the settlement agreement, the Company paid approximately \$450,000 in the quarter ended June 30, 2018.

Note 5. 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. Net revenue is attributed to the United States and to all foreign countries based on the geographical location of the customer.

The Company recognized revenue from shipment of product and licensing of its technologies to customers by geographical location as follows (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2018	2017	2018	2017
North America	\$3,652	\$1,915	\$10,393	\$3,698
Japan	364	384	2,206	755
Taiwan	155	123	311	463
Rest of world	172	31	239	133
Total net revenue	\$4,343	\$2,453	\$13,149	\$5,049

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

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2018	2017	2018	2017
Customer A	37%	43%	34%	44%
Customer B	29%	24%	15%	15%
Customer C	*%	15%	17%	15%
Customer D	*%	*%	18%	*%
Customer E	*%	*%	*%	*%

* Represents less than 10%

Four customers accounted for 83% of accounts receivable at September 30, 2018. One customer accounted for 63% of accounts receivable at December 31, 2017.

Note 6. Income Tax Provision

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. All tax returns from 2013 to 2017 may be subject to examination by the Internal Revenue Service,

California and other states. Returns filed in foreign jurisdictions may be subject to examination for the years 2009 to 2017. As of September 30, 2018, the Company has not recorded any liability for unrecognized tax benefits related to uncertain tax positions.

Note 7. Stock-Based Compensation

The expense relating to stock options is recognized on a straight-line basis over the requisite service period, usually the vesting period, based on the grant-date fair value. The unamortized compensation cost, net of expected forfeitures, as of September 30, 2018 was \$0.6 million related to stock options and is expected to be recognized as expense over a weighted-average period of approximately 1.8 years. The expense related to restricted stock units (RSUs) is recognized over a three-to-five year vesting period and is based on the fair value of the underlying stock on the dates of grant. The unamortized compensation cost, net of expected forfeitures, as of September 30, 2018 was \$0.3 million related to RSUs and is expected to be recognized as expense over a weighted-average period of approximately 0.5 years.

For the three and nine months ended September 30, 2018 and 2017, there were no excess tax benefits associated with the exercise of stock options due to the Company's historical loss positions.

Valuation Assumptions

No stock options were granted during the three months ended September 30, 2018 or 2017. The fair value of the Company's stock options granted for the nine months ended September 30, 2018 and 2017 was estimated on the grant dates using the Black-Scholes valuation option-pricing model with the following assumptions:

	Nine Months Ended September 30,			
	2018		2017	
Risk-free interest rate	2.2	%	1.6	%
Volatility	109.5	%	70.2	%
Expected life (years)	4.0		4.0	
Dividend yield	—	%	—	%

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. 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 and RSU activity under the Company's Amended and Restated 2010 Equity Incentive Plan (the Plan) is presented below (in thousands, except exercise price):

	Shares	Options outstanding	
		Weighted Average Number of Shares	Exercise Prices
Balance at January 1, 2018	231	307	\$ 4.81
Additional shares authorized under the Plan	50	—	—
RSUs granted	(60)	—	—
RSUs cancelled and returned to the Plan	1	—	—
Options granted	(40)	40	\$ 1.28

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Options cancelled and returned to the Plan	2	(2)	\$ 23.47
Balance at March 31, 2018	184	345	\$ 4.30
Options cancelled and returned to the Plan	1	(1)	\$ 9.40
Balance at June 30, 2018	185	344	\$ 4.27
RSUs granted	(208)	—	—
RSUs cancelled and returned to the Plan	27	—	—
Options cancelled and returned to the Plan	6	(6)	\$ 8.52
Balance at September 30, 2018	10	338	\$ 4.20

A summary of RSU activity under the Plan is presented below (in thousands, except for fair value):

	Number of Shares	Weighted Average Grant-Date Fair Value
Non-vested shares at January 1, 2018	376	\$ 1.58
Granted	60	\$ 1.16
Vested	(133)	\$ 2.11
Cancelled	(1)	\$ 0.94
Non-vested shares at June 30, 2018	302	\$ 1.27
Granted	208	\$ 0.81
Vested	(110)	\$ 0.93
Cancelled	(27)	\$ 1.26
Non-vested shares at September 30, 2018	373	\$ 1.12

The total intrinsic value of the RSUs outstanding as of September 30, 2018 was \$0.2 million.

The following table summarizes significant ranges of outstanding and exercisable options as of September 30, 2018 (in thousands, except contractual life and exercise price):

Range of Exercise Price	Options Outstanding			Options Exercisable		
	Number Outstanding	Weighted Average Remaining Contractual Life (in Years)	Weighted Average Exercise Price	Number Exercisable	Weighted Average Exercise Price	Aggregate Intrinsic value
\$0.75 - \$1.27	160	5.05	\$ 0.75	53	\$ 0.75	\$ —
\$1.28 - \$7.19	51	5.65	\$ 2.08	21	\$ 2.75	\$ —
\$7.20 - \$20.49	108	7.54	\$ 7.20	77	\$ 7.20	\$ —
\$20.50 - \$46.20	19	6.44	\$ 21.53	18	\$ 21.62	\$ —
\$0.75 - \$46.20	338	6.02	\$ 4.20	169	\$ 6.12	\$ —
Vested and expected to vest	303	6.10	\$ 4.52			—
Exercisable	169	6.36	\$ 6.12			—

There were no stock options exercised during the nine months ended September 30, 2018 or 2017.

Note 8. 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. Pursuant to an amendment to the Notes and related documents effective February 18, 2018, the interest rate was reduced to 8%, the maturity date of the Notes was extended to August 15, 2019, and the optional conversion price was reduced from \$8.50 of Note principal per share of common stock to \$4.25 of Note principal per share of common stock. The conversion price is subject to adjustment upon certain events, such as stock splits, reverse stock splits, stock dividends and similar kinds of transactions, 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 originally had an interest rate of 10%, but from February 15, 2018, the annual rate of interest is 8%. 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. Pursuant to the amendment to the Notes, the redemption price was reduced from 120% to 100% of the principal amount of the Note to be repurchased plus accrued and unpaid interest as of the redemption date.

No holder of a Note is entitled to convert such Note 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 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.

Upon the closing of the offering described in Note 10 below, pursuant to an amendment to the Notes and related documents effective October 2, 2018, the Notes were further amended to require a payment on the principal indebtedness of approximately \$7.4 million, extend the maturity date of the remaining Notes balance to August 15, 2023, change the conversion price of the Notes from \$4.25 to \$0.5717 per share and provide that in no event shall the total number of shares of common stock owned by a holder of the Notes, or holders constituting a group, exceed 19.9% of the number of shares of common stock outstanding, unless stockholder approval is obtained for such excess holding.

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 original loan using the effective interest rate method. The interest expense related to the debt discount during the three and nine months ended September 30, 2018 was approximately \$6,000 and \$30,000, respectively, and during the three and nine months ended September 30, 2017

was approximately \$11,000 and \$33,000, respectively.

Semi-annual interest payments have been made in each of August 2016, February 2017, August 2017, February 2018 and August 2018, for approximately \$336,000, \$420,000, \$434,000, \$463,000 and \$383,000, respectively, in-kind with the issue of additional notes (Interest Notes) to the Purchasers. The Interest Notes have terms identical to the Notes. As of September 30, 2018, the Notes and Interest Notes could be converted into a maximum of 2,361,445 shares of common stock at \$4.25 per share, excluding the effects of future payments of interest in-kind and a beneficial ownership ceiling of 9.9%.

As of September 30, 2018, the outstanding convertible notes payable of \$10.0 million was due in August 2019. The maturity date was subsequently extended and the amount of indebtedness outstanding reduced, as discussed above.

Note 9. Restructuring Charges

In the second quarter of 2017, the Company effected a reduction in its workforce and associated operating expenses, net loss and cash burn. The Company reduced headcount by approximately 60% with the majority of the reductions occurring at its U.S. headquarters facility. As a result of the restructuring, the Company recorded approximately \$1.0 million of charges for severance benefits and future obligations under computer-aided design software licenses. In the third quarter of 2017, the Company closed its Japanese branch and Iowa locations and further reduced headcount resulting in additional expenses of approximately \$50,000. In the fourth quarter of 2017, the Company terminated its existing headquarters facility lease and incurred lease termination expenses of approximately \$270,000.

Expenses related to the restructure are included in the restructuring charges line in the condensed consolidated statements of operations and the remaining liability is included in accrued expenses and other on the condensed consolidated balance sheets consisting of (in thousands):

	Facility related	Contractual obligations and other termination costs	Total
Balance as of January 1, 2018	\$ 89	\$ 389	\$478
Cash payments	(89)	(131)	(220)
Balance as of March 31, 2018	—	258	258
Cash payments	—	(86)	(86)
Balance as of June 30, 2018	—	172	172
Cash payments	—	(86)	(86)
Balance as of September 30, 2018	\$ —	\$ 86	\$86

Note 10. Subsequent Events

Public Offering

On October 4, 2018 the Company completed a public offering of securities registered under an effective registration statement filed with the SEC pursuant to the Securities Act of 1933, as amended (SEC File No. 333-225193). In the offering, the Company sold 36,910,809 units, consisting of 8,065,000 common units, at a price to the public of \$0.30 per unit, and 28,845,809 pre-funded units, at a price to the public of \$0.30 per unit. Each common unit consisted of one share of common stock and a warrant to purchase one share of common stock (“common stock warrant”), and pre-funded units consisting of a pre-funded warrant to purchase one share of common stock for \$0.001 per share and a common stock warrant. The common stock warrants are immediately exercisable at an exercise price of \$0.30 per share (subject to adjustment).

The gross proceeds from the offering were approximately \$11.1 million of which \$7.4 million was used to pay a portion of the principal amount of the Notes (see Note 8).

ITEM 2. 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 condensed consolidated financial statements and notes included in this report. This Form 10-Q contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, which include, without limitation, statements about the market for our technology, our strategy, competition, expected financial performance and capital raising efforts, all information disclosed under Item 3 of this Part I, and other aspects of our business identified in our most recent annual report on Form 10-K filed with the Securities and Exchange Commission on March 12, 2018 and in other reports that we file from time to time with the Securities and Exchange Commission. Any statements about our business, financial results, financial condition and operations contained in this Form 10-Q that are not statements of historical fact may be deemed to be forward-looking statements. Without limiting the foregoing, the words "believes," "anticipates," "expects," "intends," "plans," "projects," or similar expressions are intended to identify forward-looking statements. 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 described under Item 1A of our annual report on Form 10-K for the year ended December 31, 2017. We undertake no obligation to update publicly any forward-looking statements for any reason, except as required by law, even as new information becomes available or events occur in the future.

Company Overview

Our strategy and primary business objective is to be a profitable fabless semiconductor company focused on the development and sale of integrated circuits, or ICs, for the high-speed cloud networking, communications, security appliance, video, test and monitoring 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. In April 2017, we implemented restructuring initiatives to effect a reduction in our workforce and associated operating expenses, net loss and cash burn. Under these initiatives, we significantly reduced our headcount, closed our international sales offices and relocated and downsized our corporate headquarters. We are now focusing our resources primarily on producing and selling our existing products, and have substantially curtailed new product development. Our second-generation Bandwidth Engine, or Bandwidth Engine 2, products are expected to be our primary revenue source through at least 2019, and to continue to generate significant revenue thereafter. We expect our third generation Bandwidth Engine products, Bandwidth Engine 3, to commence production in late 2018, and begin generating meaningful revenue in late 2019. Despite our limited new product development efforts, we believe our current product portfolio positions us to pursue future growth and maintain profitability. However, we were recently informed by a large customer that it will be phasing out our Bandwidth Engine IC products over the next 24 months. The customer informed us that its decision was not attributable to any dissatisfaction with our products or performance. We expect to fulfill the customer's remaining commitments and complete shipments of our Bandwidth Engine IC products to this customer in the first half of 2019. The loss of future business with this customer is expected to result in a material reduction in our revenue outlook beginning in the fourth quarter of 2018. We continue to seek opportunities to sell existing products, license our technology and obtain third-party funding for new product development efforts. Our future success and ability to achieve and maintain profitability are dependent on the marketing and sales of our IC products into cloud networking, communications, security appliances, monitoring and test, data center, video, and other markets requiring high-bandwidth memory access.

Accounting Change

On January 1, 2018, we adopted Financial Accounting Standards Board (FASB) Accounting Standards Codification Topic 606, Revenue from Contracts with Customers (ASC 606) using the modified retrospective (cumulative effect) transition method. Under this transition method, results for reporting periods beginning January 1, 2018 or later are presented under ASC 606, while prior period results continue to be reported in accordance with previous guidance. The cumulative effect of the initial application of ASC 606 was recognized as an adjustment to accumulated deficit of \$0.2 million as of January 1, 2018. Overall, the adoption of ASC 606 did not have a material impact on the condensed consolidated balance sheet as of September 30, 2018, the statement of operations and comprehensive income for the three or nine months ended September 30, 2018 and statement of cash flows for the nine months ended September 30, 2018. ASC 606 also requires additional disclosures about the nature, amount, timing and uncertainty of revenue and cash

flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to fulfill a contract. As described below, the analysis of contracts under ASC 606 supports the recognition of revenue at a point in time, resulting in revenue recognition timing that is materially consistent with our historical practice of recognizing product revenue when title and risk of loss pass to the customer.

Sources of Revenue

Product. Product revenue is generally recognized at the time of shipment to our customers. An estimated allowance may be recorded, at the time of shipment, for future returns and other charges against revenue consistent with the terms of sale.

Royalty and other. Our licensing contracts typically provide for royalties based on the licensee's use of our memory technology in their currently shipping commercial products. With the adoption of ASC 606 in January 2018, we estimate royalty revenue in the period in which the licensee uses the licensed technology. Payments are received in the following period.

Critical Accounting Policies and Estimates

The discussion and analysis of our financial condition and results of operations are based upon our condensed consolidated financial statements, which have been prepared in accordance with GAAP. The preparation of these condensed consolidated financial statements requires us to make certain estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses. On an ongoing basis we make these estimates based on our historical experience and on assumptions that we consider reasonable under the circumstances. Actual results may differ from these estimates, and reported results could differ under different assumptions or conditions. Our significant accounting policies and estimates are disclosed in Note 1 of the "Notes to Consolidated Financial Statements" in our Annual Report on Form 10-K for the year ended December 31, 2017. As of September 30, 2018, there have been no material changes to our significant accounting policies and estimates, except that we adopted ASC 606, Revenue from Contracts with Customers, effective January 1, 2018, as discussed in Note 1 to the Condensed Consolidated Financial Statements.

Results of Operations

Net Revenue.

	September 30,		Change	
	2018	2017	2017 to 2018	
	(dollar amounts in thousands)			
Product -three months ended	\$4,056	\$2,231	\$1,825	82 %
Percentage of total net revenue	93	% 91	%	
Product -nine months ended	\$11,811	\$4,297	\$7,514	175%
Percentage of total net revenue	90	% 85	%	

Product revenue increased for the three and nine months ended September 30, 2018 compared with the same periods of 2017 primarily due to higher shipment volumes of our Bandwidth Engine products, as well as higher average

selling prices.

	September 30,		Change	
	2018	2017	2017 to	
	2018			
	(dollar amounts in thousands)			
Royalty and other -three months ended	\$287	\$222	\$65	29%
Percentage of total net revenue	7	% 9	%	
Royalty and other -nine months ended	\$1,338	\$752	\$586	78%
Percentage of total net revenue	10	% 15	%	

Royalty revenue and other includes revenues generated from licensing agreements. The increases in royalty and other revenue for 2018 were primarily due to non-recurring license and engineering services for a development project, which was completed during the nine months ended September 30, 2018 and for which cash was collected in 2017. For the nine months ended September 30, 2018, these increases were partially offset by decreases in royalties due to lower shipment volumes by licensees whose products incorporate our licensed IP.

Cost of Net Revenue and Gross Profit.

	September 30,		Change	
	2018	2017	2017 to 2018	
	(dollar amounts in thousands)			
Cost of net revenue -three months ended	\$1,948	\$1,256	\$692	55 %
Percentage of total net revenue	45 %	51 %		
Cost of net revenue -nine months ended	\$5,382	\$2,590	\$2,792	108 %
Percentage of total net revenue	41 %	51 %		

	September 30,		Change	
	2018	2017	2017 to 2018	
	(dollar amounts in thousands)			
Gross profit -three months ended	\$2,395	\$1,197	\$1,198	100 %
Percentage of total net revenue	55 %	49 %		
Gross profit -nine months ended	\$7,767	\$2,459	\$5,308	216 %
Percentage of total net revenue	59 %	49 %		

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, 2018 compared with the same periods of 2017 primarily due to increased IC product shipment volumes.

Gross profit increased for the three and nine months ended September 30, 2018, compared with the same periods of 2017, primarily due to the increase in gross profit from increased product shipments and reduced manufacturing costs, as well as non-recurring license and engineering services fees for a development project.

	September 30,		Change	
	2018	2017	2017 to 2018	
	(dollar amounts in thousands)			
Gross profit - product -three months ended	\$2,108	\$975	\$1,133	116 %
Percentage of total net revenue	49 %	40 %		
Gross profit - product -nine months ended	\$6,429	\$1,707	\$4,722	277 %
Percentage of total net revenue	49 %	34 %		

Research and Development.

	September 30,		Change	
	2018	2017	2017 to 2018	
	(dollar amounts in thousands)			

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Research and development -three months ended	\$1,023	\$1,436	\$(413)	(29)%
Percentage of total net revenue	24 %	59 %		
Research and development -nine months ended	\$3,064	\$7,234	\$(4,170)	(58)%
Percentage of total net revenue	23 %	143 %		

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 decreases for the three and nine months ended September 30, 2018 compared with the same periods in 2017 were primarily due to reduced personnel, product development and qualification, stock-based compensation, and computer-aided design software expenses and facility costs.

We expect research and development expenses to remain at approximately the same levels for the remainder of 2018, due primarily to cost-reduction initiatives implemented in 2017 (discussed in Note 9 to the Condensed Consolidated Financial Statements), as we continue to primarily focus our resources on producing and selling our existing products and have substantially limited new product development.

Research and development expenses included stock-based compensation expense of approximately \$107,000 and \$119,000 for the three months ended September 30, 2018 and 2017, respectively. Research and development expenses included stock-based compensation expense of approximately \$196,000 and \$330,000 for the nine months ended September 30, 2018 and 2017, respectively.

Selling, General and Administrative

	September 30,		Change	
	2018	2017	2017 to	
	2018			
	(dollar amounts in thousands)			
SG&A -three months ended	\$919	\$1,244	\$(325)	(26)%
Percentage of total net revenue	21	% 51	%	
SG&A -nine months ended	\$3,158	\$3,659	\$(501)	(14)%
Percentage of total net revenue	24	% 72	%	

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 months ended September 30, 2018 compared with the same period in 2017 were primarily due to reduced professional fees and personnel costs. The decrease for the nine months ended September 30, 2018 compared with the same period in 2017 was primarily due to lower compensation costs. Due to the effects of cost-reduction initiatives implemented in 2017, we expect SG&A expenses to remain at approximately the same levels for the remainder of 2018.

Selling, general and administrative expenses included stock-based compensation expense of \$0.1 million for each of the three-month periods ended September 30, 2018 and 2017, \$0.3 million for the nine-month period ended September 30, 2018 and \$0.2 million for the nine-month period ended September 30, 2017.

Impairment of Goodwill

	September 30,		Change	
	2018	2017	2017 to	
	2018			
	(dollar amounts in thousands)			
Impairment of goodwill -three months ended	\$3,159	\$ —	\$3,159	—
Percentage of total net revenue	73	% —	%	
Impairment of goodwill -nine months ended	\$3,159	\$ —	\$3,159	—
Percentage of total net revenue	24	% —	%	

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In the third quarter of 2018, we recorded a goodwill impairment charge. See Note 1 of the condensed consolidated financial statements for additional disclosure.

Interest expense

	September 30,		Change	
	2018	2017	2017 to	
	2018			
	(dollar amounts in thousands)			
Interest expense - three months ended	\$ (104)	\$ (238)	\$ 134	56 %
Percentage of total net revenue	(2)%	(10)%		
Interest expense - nine months ended	\$ (531)	\$ (685)	\$ 154	22 %
Percentage of total net revenue	(4)%	(14)%		

Interest expense consisted of interest expense on our senior secured convertible notes (the Notes). To date, we have paid all accumulated interest for the Notes in-kind through the issuance of identical new senior secured convertible notes. As a result of an amendment to the Notes in October 2018 and repayment of principle, we expect interest expense to be significantly lower in future periods.

See Note 8 to the condensed consolidated financial statements for additional disclosure.

Liquidity and Capital Resources; Changes in Financial Condition

Cash Flows

As of September 30, 2018, we had cash and cash equivalents of \$4.2 million and working capital of \$4.9 million.

Net cash provided by operating activities was \$0.4 million for the first nine months of 2018, which primarily resulted from cash generated by operations, excluding the effects of a charge for impairment of goodwill of \$3.2 million, stock-based compensation expense of \$0.4 million, depreciation and amortization expenses of \$0.5 million and accrued interest of \$0.5 million, and \$2.1 million in net changes in assets and liabilities. The changes in assets and liabilities primarily related to the timing of customer collections and inventory prepayments and the net change in liabilities.

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 investing activities during the nine months ended September 30, 2018 was for the purchase of operating equipment. 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 used in financing activities for the first nine months of 2018 consisted of amounts paid for employee income taxes related to net share settlement of vested RSUs and payments for costs incurred in connection with the sale of common stock and warrants to purchase common stock in an equity offering completed in July 2017.

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 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.

Working Capital

We believe our existing cash and cash equivalents will be sufficient to meet our anticipated cash needs over the next 12 months. Our primary capital requirements are to fund working capital, capital expenditures and for general corporate purposes, including the repayment of the Notes. To date, we have made accrued interest payments on the Notes in kind through the issuance of additional identical notes totaling approximately \$2.0 million, and, as of

September 30, 2018, the outstanding indebtedness under the Notes was \$10.0 million. The amount of this debt was subsequently reduced to \$2.7 million with proceeds from a public offering of securities completed in October 2018, as described in Note 10 to the

notes to condensed consolidated financial statements. The maturity date for the remaining Notes was extended to August 15, 2023 under the terms of the amendment to the notes described in Note 8 to the notes to condensed consolidated financial statements.

We may raise additional capital for working capital and repayment of all or a portion of the remaining balance of the Notes, but there can be no assurance that such funding will be available to us on favorable terms, if at all. The failure to raise capital when needed could have a material adverse effect on our business and financial condition. 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 reductions of personnel, salaries and capital expenditures. Alternatively, or in addition to such potential measures, we may elect to implement additional cost reduction actions as we may determine are necessary and in our best interests. 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:

- repay the Notes when they are due;
- develop or enhance our products;
- expand our product development and sales and marketing organizations;
- acquire complementary technologies, products or businesses;
- expand operations;
- 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 existing operations or research and development plans.

ITEM 4. Controls and Procedures

Disclosure Controls and Procedures. Our management is responsible for establishing and maintaining adequate internal control over our financial reporting. Because of inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934. Based on this evaluation, our management concluded that, as of September 30, 2018, our disclosure controls and procedures were effective.

Changes in Internal Control over Financial Reporting. During the first nine months of 2018, there was no change in our internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II—OTHER INFORMATION

ITEM 1. Legal Proceedings

The discussion of legal matters in Note 4 of the Notes to Condensed Consolidated Financial Statements included in Part I, Item 1 of this report under the heading “Legal Matters” is incorporated by reference in response to this Part II, Item 1.

ITEM 1A. Risk Factors

We face many significant risks in our business, some of which are unknown to us and not presently foreseen. These risks could have a material adverse impact on our business, financial condition and results of operations in the future. We have disclosed a number of material risks under Item 1A of our annual report on Form 10-K for the year ended December 31, 2017, which we filed with the SEC on March 12, 2018 and our Registration Statement filed on Form S-1, filed with the SEC on May 24, 2018, as amended.

ITEM 6. Exhibits

(a) Exhibits

31.1 Rule 13a-14 certification

31.2 Rule 13a-14 certification

32.1 Section 1350 certification

101 The following financial information from MoSys, Inc.'s Quarterly Report on Form 10-Q for the period ended September 30, 2018, filed with the SEC on November 6, 2018, formatted in Extensible Business Reporting Language (XBRL): (i) the Condensed Consolidated Statements of Operations and Comprehensive Loss for the three and nine months ended September 30, 2018 and 2017, (ii) the Condensed Consolidated Balance Sheets as of September 30, 2018 and December 31, 2017, (iii) the Condensed Consolidated Statements of Cash Flows for the nine months ended September 30, 2018 and 2017, and (iv) Notes to Condensed Consolidated Financial Statements.

Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Dated: November 6, 2018 MOSYS, INC.

By: /s/ Daniel Lewis
Daniel Lewis
President and Chief Executive Officer

By: /s/ James W. Sullivan
James W. Sullivan
Vice President of Finance and Chief Financial Officer
(Principal Financial Officer)