

---

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 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 **October 1, 2016**

or

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

For the transition period from \_\_\_\_\_ to \_\_\_\_\_  
Commission file number **001-33170**



**NETLIST, INC.**

(Exact name of registrant as specified in its charter)

**Delaware**  
State or other jurisdiction of incorporation or organization

**95-4812784**  
(I.R.S. Employer Identification No.)

**175 Technology Drive, Suite 150**  
**Irvine, CA 92618**  
(Address of principal executive offices) (Zip Code)  
**(949) 435-0025**  
(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 such filing requirements for the past 90 days. Yes  No

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

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

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

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

The number of shares outstanding of the registrant's common stock as of the latest practicable date:

Common Stock, par value \$0.001 per share  
60,951,857 shares outstanding at November 10, 2016

---

**NETLIST, INC. AND SUBSIDIARIES**  
**QUARTERLY REPORT ON FORM 10-Q**  
**FOR THE THREE AND NINE MONTHS ENDED OCTOBER 1, 2016**

**TABLE OF CONTENTS**

	<u>Page</u>
<b><u>PART I. FINANCIAL INFORMATION</u></b>	
<b><u>Item 1. Financial Statements</u></b>	3
<u>Condensed Consolidated Balance Sheets at October 1, 2016 (unaudited) and January 2, 2016 (audited)</u>	3
<u>Unaudited Condensed Consolidated Statements of Operations for the three and nine months ended October 1, 2016 and September 26, 2015</u>	4
<u>Unaudited Condensed Consolidated Statements of Cash Flows for the nine months Ended October 1, 2016 and September 26, 2015</u>	5
<u>Notes to Unaudited Condensed Consolidated Financial Statements</u>	6
<b><u>Item 2. Management’s Discussion and Analysis of Financial Condition and Results of Operations</u></b>	30
<b><u>Item 3. Quantitative and Qualitative Disclosures About Market Risk</u></b>	46
<b><u>Item 4. Controls and Procedures</u></b>	46
<b><u>PART II. OTHER INFORMATION</u></b>	47
<b><u>Item 1. Legal Proceedings</u></b>	47
<b><u>Item 1A. Risk Factors</u></b>	47
<b><u>Item 2. Unregistered Sales of Equity Securities and Use of Proceeds</u></b>	69
<b><u>Item 6. Exhibits</u></b>	69

**PART I. FINANCIAL INFORMATION****Item 1. Financial Statements****NETLIST, INC. AND SUBSIDIARIES**  
**Condensed Consolidated Balance Sheets**  
**(in thousands, except par value)**

	<b>(unaudited)</b> <b>October 1,</b> <b>2016</b>	<b>(audited)</b> <b>January 2,</b> <b>2016</b>
<b>ASSETS</b>		
Current Assets:		
Cash and cash equivalents	\$ 15,394	\$ 19,684
Restricted cash	1,100	400
Accounts receivable, net of allowance for doubtful accounts of \$40 (2016) and \$40 (2015)	1,119	716
Inventories	2,992	1,658
Prepaid expenses and other current assets	1,834	1,739
Total current assets	<u>22,439</u>	<u>24,197</u>
Property and equipment, net	694	408
Other assets	73	61
Total assets	<u>\$ 23,206</u>	<u>\$ 24,666</u>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY (DEFICIT)</b>		
Current Liabilities:		
Accounts payable	\$ 4,201	\$ 3,299
Accrued payroll and related liabilities	894	1,243
Accrued expenses and other current liabilities	293	340
Deferred revenue	-	6,857
Accrued engineering charges	500	500
Notes payable and capital lease obligation, current	183	13
Total current liabilities	<u>6,071</u>	<u>12,252</u>
Convertible promissory note, net of debt discount, and accrued interest	14,112	13,699
Capital lease obligation, long term	23	-
Long-term warranty liability	27	49
Total liabilities	<u>20,233</u>	<u>26,000</u>
Commitments and contingencies		
Stockholders' equity (deficit):		
Preferred stock, \$0.001 par value - 10,000 shares authorized; no shares issued and outstanding	-	-
Common stock, \$0.001 par value - 90,000 shares authorized; 60,952 (2016) and 50,354 (2015) shares issued and outstanding	61	50
Additional paid-in capital	143,615	132,011
Accumulated deficit	(140,703)	(133,395)
Total stockholders' equity (deficit)	<u>2,973</u>	<u>(1,334)</u>
Total liabilities and stockholders' equity (deficit)	<u>\$ 23,206</u>	<u>\$ 24,666</u>

See accompanying notes.

**NETLIST, INC. AND SUBSIDIARIES**  
**Unaudited Condensed Consolidated Statements of Operations**  
(in thousands, except per share amounts)

	<u>Three Months Ended</u>		<u>Nine Months Ended</u>	
	<u>October 1, 2016</u>	<u>September 26, 2015</u>	<u>October 1, 2016</u>	<u>September 26, 2015</u>
Net product sales	\$ 2,589	\$ 1,617	\$ 7,260	\$ 5,160
Non-recurring engineering revenues	-	-	6,857	-
Total net revenues	2,589	1,617	14,117	5,160
Cost of sales(1)	2,580	1,593	6,996	4,332
Gross profit	9	24	7,121	828
Operating expenses:				
Research and development(1)	1,463	1,449	4,940	4,369
Intellectual property legal fees	409	899	2,255	6,679
Selling, general and administrative(1)	2,398	1,710	6,822	5,213
Total operating expenses	4,270	4,058	14,017	16,261
Operating loss	(4,261)	(4,034)	(6,896)	(15,433)
Other income (expense), net:				
Interest expense, net	(159)	(447)	(428)	(1,416)
Other income (expense), net	19	(889)	17	667
Total other expense, net	(140)	(1,336)	(411)	(749)
Loss before provision for income tax	(4,401)	(5,370)	(7,307)	(16,182)
Provision for income taxes	-	-	1	1
Net loss	\$ (4,401)	\$ (5,370)	\$ (7,308)	\$ (16,183)
Net loss per common share:				
Basic and diluted	\$ (0.08)	\$ (0.11)	\$ (0.14)	\$ (0.33)
Weighted-average common shares outstanding:				
Basic and diluted	52,454	50,354	51,301	48,471

(1) Amounts include stock-based compensation expense as follows:

Cost of sales	\$ 14	\$ 11	\$ 42	\$ 37
Research and development	73	123	263	461
Selling, general and administrative	246	240	789	795
Total stock-based compensation	\$ 333	\$ 374	\$ 1,094	\$ 1,293

See accompanying notes.

**NETLIST, INC. AND SUBSIDIARIES**  
**Unaudited Condensed Consolidated Statements of Cash Flows**  
**(in thousands)**

	<b>Nine Months Ended</b>	
	<b>October 1, 2016</b>	<b>September 26, 2015</b>
Cash flows from operating activities:		
Net loss	\$ (7,308)	\$ (16,183)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	210	312
Capitalized payment-in-kind interest	-	170
Amortization of debt discount	163	676
Realized gain on sale of equipment	-	1
Stock-based compensation	1,094	1,293
Changes in operating assets and liabilities:		
Restricted cash	(700)	-
Accounts receivable	(403)	634
Inventories	(1,334)	39
Prepaid expenses and other assets	157	563
Accounts payable	902	2,945
Accrued payroll and related liabilities	(349)	43
Accrued expenses and other current liabilities	181	(3)
Deferred revenue	(6,857)	-
Net cash used in operating activities	<u>(14,244)</u>	<u>(9,510)</u>
Cash flows from investing activities:		
Acquisition of property and equipment	(317)	(140)
Proceeds from sale of equipment	-	2
Net cash used in investing activities	<u>(317)</u>	<u>(138)</u>
Cash flows from financing activities:		
Proceeds from long- term loans, net of issuance costs	-	3,727
Payments on debt	(250)	(3,023)
Proceeds from issuance of common stock, net	10,334	10,543
Proceeds from exercise of equity awards	187	8
Net cash provided by financing activities	<u>10,271</u>	<u>11,255</u>
Net change in cash and cash equivalents	(4,290)	1,607
Cash and cash equivalents at beginning of period	19,684	11,040
Cash and cash equivalents at end of period	<u>\$ 15,394</u>	<u>\$ 12,647</u>

See accompanying notes.

**NETLIST, INC. AND SUBSIDIARIES**  
**NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS**  
**October 1, 2016**

**Note 1—Description of Business**

Netlist, Inc. together with its majority and wholly owned subsidiaries (hereinafter collectively referred to as the “Company” or “Netlist,” unless the context or the use of the term indicates otherwise), provides high-performance modular memory subsystems to customers in diverse industries that require superior memory performance to empower critical business decisions. The Company has a long history of introducing disruptive new products, such as one of the first load-reduced dual in-line memory module (“LRDIMM”) based on its distributed buffer architecture, which has been adopted by the industry for DDR4 LRDIMM. The Company was also one of the first to bring NAND flash memory (“NAND flash”) to the memory channel with its NVvault® non-volatile dual in-line memory modules (“NVDIMM”) using software-intensive controllers and merging dynamic random access memory integrated circuits (“DRAM ICs” or “DRAM”) and flash to solve data bottleneck and data retention challenges encountered in high-performance computing environments. The Company recently introduced a new generation of storage class memory products called HybriDIMM™ to address the growing need for real-time analytics in Big Data applications and in-memory databases.

Due to the ground-breaking product development of its engineering teams, Netlist has built a robust portfolio of over 100 issued and pending U.S. and foreign patents in the areas of hybrid memory, storage class memory, rank multiplication and load reduction. The Company’s early pioneering work in these areas has been broadly adopted in industry standard LRDIMM and in NVDIMM. Netlist’s objective is to continue to innovate in their field and invest further in their intellectual property portfolio, with the goal of monetizing their intellectual property through a combination of product sales, licensing and royalty agreements, and other revenue opportunities.

Netlist was incorporated in June 2000 and is headquartered in Irvine, California. In 2007, the Company established a manufacturing facility in the People’s Republic of China (the “PRC”), which became operational in July 2007 upon the successful qualification of certain key customers.

*Liquidity*

The Company incurred net losses of approximately \$7.3 million and \$16.2 million for the nine months ended October 1, 2016 and September 26, 2015, respectively. The Company has historically financed its operations primarily through issuances of equity and debt securities, as well as revenues generated from operations.

On November 12, 2015, the Company entered into a Joint Development and License Agreement (“JDLA”) with Samsung Electronics Co., Ltd. (“Samsung”), pursuant to which the Company and Samsung agreed to work together to jointly develop a standardized product interface for NVDIMM-P memory modules in order to facilitate broad industry adoption of this new technology. The Company received an \$8.0 million non-recurring engineering (“NRE”) fee from Samsung for the joint development. The JDLA also includes cross licensing of each party’s respective patent portfolios, as well as access to raw materials (DRAM and NAND flash) at competitive prices, and an important strategic partner that can facilitate getting the Company’s HybriDIMM technology to market. Both parties may enter into an additional agreement in the future for Samsung to be granted commercial license for the Company’s NVDIMM-P technology. The JDLA also includes a right of first refusal wherein the Company will provide Samsung the right to acquire the Company’s NVDIMM-P technology in a separate, subsequent transaction before the Company offers the technology to a third party. The Company also received \$15.0 million under a Senior Secured Convertible Note and Warrant Purchase Agreement (“SVIC Purchase Agreement”) with SVIC No. 28 New Technology Business Investment L.L.P., a Korean limited liability partnership and an affiliate of Samsung Venture Investment Co. (“SVIC”) (see Note 5).

On September 23, 2016, the Company completed a registered firm commitment underwritten public offering (the “2016 Offering”) of 9,200,000 shares of its common stock at a price to the public of \$1.25 per share, which includes 1,200,000 shares sold pursuant to the full exercise by the underwriters in the 2016 Offering of their option to purchase

additional shares to cover over-allotments. The net proceeds to the Company from the 2016 Offering were approximately \$10.3 million, after deducting underwriting discounts and commissions and offering expenses paid or payable by the Company.

If adequate working capital is not available when needed, the Company may be required to significantly modify its business model and operations. Insufficient working capital could cause the Company to be unable to execute its business plan, take advantage of potential opportunities, or respond to competitive pressures or customer requirements. It may also cause the Company to delay, scale back or eliminate some or all of its research and development programs, to implement cost-cutting measures to reduce spending to a sustainable level or to reduce or cease operations. While there is no assurance that the Company can meet its revenue and expense level forecasts, management anticipates that it can continue operations for at least the next 12 months.

## **Note 2—Summary of Significant Accounting Policies**

### *Basis of Presentation*

The interim unaudited condensed consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America for interim financial information and with the instructions to Securities and Exchange Commission (“SEC”) Form 10-Q and Article 8 of SEC Regulation S-X. These condensed consolidated financial statements do not include all of the information and footnotes required by accounting principles generally accepted in the United States for complete financial statements. Therefore, these unaudited condensed consolidated financial statements should be read in conjunction with the Company’s audited consolidated financial statements and notes thereto for the year ended January 2, 2016, included in the Company’s Annual Report on Form 10-K filed with the SEC on March 4, 2016.

The condensed consolidated financial statements included herein as of October 1, 2016 are unaudited; however, they contain all normal recurring accruals and adjustments that, in the opinion of the Company’s management, are necessary to present fairly the condensed consolidated financial position of the Company and its wholly-owned subsidiaries as of October 1, 2016 and the condensed consolidated statements of operations for the three and nine months ended October 1, 2016 and September 26, 2015 and the condensed consolidated statements of cash flows for the nine months ended October 1, 2016 and September 26, 2015. The results of operations for the nine months ended October 1, 2016 are not necessarily indicative of the results to be expected for the full year or any future interim periods.

### *Principles of Consolidation*

The condensed consolidated financial statements include the accounts of Netlist, Inc. and its wholly-owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation.

### *Fiscal Year*

The Company operates under a 52/53-week fiscal year ending on the Saturday closest to December 31. For 2016, the Company’s fiscal year is scheduled to end on December 31, 2016 and will consist of 52 weeks. Each of the Company’s quarters in its 2016 fiscal year is comprised of 13 weeks.

### *Use of Estimates*

The preparation of financial statements in conformity 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 and disclosures of contingent assets and liabilities at the date of the condensed consolidated financial statements and the reported amounts of net revenues and expenses during the reporting period. By their nature, these estimates and assumptions are subject to an inherent degree of uncertainty. Significant estimates made by management include, among others, provisions for uncollectible receivables and sales returns, warranty liabilities, valuation of inventories, fair value of financial instruments, recoverability of long-lived assets, valuation of stock-based transactions, estimates for

completion of NRE revenue milestones and realization of deferred tax assets. The Company bases its estimates on historical experience, knowledge of current conditions and its beliefs of what could occur in the future considering available information. The Company reviews its estimates on an on-going basis. Actual results may differ from these estimates, which may result in material adverse effects on the Company's operating results and financial position.

#### *Revenue Recognition*

##### *Net Product Sales*

Net product sales primarily consist of sales of high-performance memory subsystems to OEMs, hyperscale data center operators and storage vendors.

The Company recognizes revenues in accordance with Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 605. Accordingly, the Company recognizes revenues when there is persuasive evidence that an arrangement exists, product delivery and acceptance have occurred, the sales price is fixed or determinable, and collectability of the resulting receivable is reasonably assured.

The Company generally uses customer purchase orders and/or contracts as evidence of an arrangement. Delivery occurs when goods are shipped for customers with shipping point terms and upon receipt for customers with destination terms, at which time title and risk of loss transfer to the customer. Shipping documents are used to verify delivery and customer acceptance. The Company assesses whether the sales price is fixed or determinable based on the payment terms associated with the transaction and whether the sales price is subject to refund. Customers are generally allowed limited rights of return for up to 30 days, except for sales of excess component inventories, which contain no right-of-return privileges. Estimated returns are provided for at the time of sale based on historical experience or specific identification of an event necessitating a reserve. The Company offers a standard product warranty to its customers and has no other post-shipment obligations. The Company assesses collectability based on the creditworthiness of the customer as determined by credit checks and evaluations, as well as the customer's payment history.

All amounts billed to customers related to shipping and handling are classified as revenues, while all costs incurred by the Company for shipping and handling are classified as cost of sales.

##### *Engineering Services*

The Company provides engineering services to its customers. The Company recognizes revenue from these services when all of the following conditions are met: (1) evidence existed of an arrangement with the customer, typically consisting of a purchase order or contract; (2) the Company's services were performed and risk of loss passed to the customer; (3) the Company completed all of the necessary terms of the contract; (4) the amount of revenue to which the Company was entitled was fixed or determinable; and (5) the Company believed it was probable that it would be able to collect the amount due from the customer. To the extent that one or more of these conditions has not been satisfied, the Company defers recognition of revenue.

##### *Deferred Revenue*

From time-to-time the Company receives pre-payments from its customers related to future services. Engineering development fee revenues, including NRE fees, are deferred and recognized ratably over the period the engineering work is completed.

##### *Cash and Cash Equivalents*

Cash and cash equivalents consist of cash and short-term investments with original maturities of three months or less, other than short-term investments in securities that lack an active market.

*Restricted Cash*

Restricted cash of \$1,100,000 as of October 1, 2016 consists of cash to secure two standby letters of credits. Restricted cash of \$400,000 as of January 2, 2016 consists of cash to secure three standby letters of credit.

*Fair Value of Financial Instruments*

The Company's financial instruments consist principally of cash and cash equivalents, restricted cash, accounts receivable, accounts payable, accrued expenses and debt instruments. The fair value of the Company's cash equivalents is determined based on quoted prices in active markets for identical assets or Level 1 inputs. The Company recognizes transfers between Levels 1 through 3 of the fair value hierarchy at the beginning of the reporting period. The Company believes that the carrying values of all other financial instruments approximate their current fair values due to their nature and respective durations.

*Allowance for Doubtful Accounts*

The Company evaluates the collectibility of accounts receivable based on a combination of factors. In cases where the Company is aware of circumstances that may impair a specific customer's ability to meet its financial obligations subsequent to the original sale, the Company will record an allowance against amounts due, and thereby reduce the net recognized receivable to the amount the Company reasonably believes will be collected. For all other customers, the Company records allowances for doubtful accounts based primarily on the length of time the receivables are past due based on the terms of the originating transaction, the current business environment and its historical experience. Uncollectible accounts are charged against the allowance for doubtful accounts when all cost effective commercial means of collection have been exhausted. Generally, the Company's credit losses have been within its expectations and the provisions established. At October 1, 2016 and January 2, 2016 the Company had an allowance for doubtful accounts of \$40,000.

*Concentration of Credit Risk*

Financial instruments that potentially subject the Company to significant concentrations of credit risk consist principally of cash and cash equivalents, and accounts receivable.

The Company invests its cash equivalents primarily in money market mutual funds. Cash equivalents are maintained with high quality institutions, the composition and maturities of which are regularly monitored by management. At times, deposits held with financial institutions may exceed the amount of insurance provided by the Federal Deposit Insurance Corporation and the Securities Investor Protection Corporation.

The Company's trade accounts receivable are primarily derived from sales to OEMs in the computer industry. The Company performs credit evaluations of its customers' financial condition and limits the amount of credit extended when deemed necessary, but generally requires no collateral. The Company believes that the concentration of credit risk in its trade receivables is moderated by its credit evaluation process, relatively short collection terms, the high level of credit worthiness of its customers (see Note 3), foreign credit insurance and letters of credit issued on the Company's behalf. Reserves are maintained for potential credit losses, and such losses historically have not been significant and have been within management's expectations.

*Inventories*

Inventories are valued at the lower of actual cost to purchase or manufacture the inventory or the net realizable value of the inventory. Cost is determined on an average cost basis, which approximates actual cost on a first-in, first-out basis and includes raw materials, labor and manufacturing overhead. At each balance sheet date, the Company evaluates its ending inventory quantities on hand and on order and records a provision for excess quantities and obsolescence. Among other factors, the Company considers historical demand and forecasted demand in relation to the inventory on hand, competitiveness of product offerings, market conditions and product life cycles when determining obsolescence and net realizable value. In addition, the Company considers changes in the market value of components in determining

the net realizable value of its inventory. Once established, lower of cost or market write-downs are considered permanent adjustments to the cost basis of the excess or obsolete inventories.

#### *Property and Equipment*

Property and equipment are recorded at cost and depreciated on a straight-line basis over their estimated useful lives, which generally range from three to seven years. Leasehold improvements are recorded at cost and amortized on a straight-line basis over the shorter of their estimated useful lives or the remaining lease term.

#### *Deferred Financing Costs, Debt Discount and Detachable Debt-Related Warrants*

Costs incurred to issue debt are deferred and recorded as a reduction to the debt balance in the accompanying condensed consolidated balance sheets. The Company amortizes debt issuance costs over the expected term of the related debt using the effective interest method. Debt discounts relate to professional services rendered and to the relative fair value of any warrants issued in conjunction with the debt and are recorded as a reduction to the debt balance and accreted over the expected term of the debt to interest expense using the effective interest method.

#### *Impairment of Long-Lived Assets*

The Company evaluates the recoverability of the carrying value of long-lived assets held and used by the Company in its operations for impairment on at least an annual basis or whenever events or changes in circumstances indicate that their carrying value may not be recoverable. When such factors and circumstances exist, the Company compares the projected undiscounted future net cash flows associated with the related asset or group of assets over their estimated useful lives against their respective carrying amount. These projected future cash flows may vary significantly over time as a result of increased competition, changes in technology, fluctuations in demand, consolidation of the Company's customers and reductions in average selling prices. If the carrying value is determined not to be recoverable from future operating cash flows, the asset is deemed impaired and an impairment loss is recognized to the extent the carrying value exceeds the estimated fair value of the asset. The fair value of the asset or asset group is based on market value when available, or when unavailable, on discounted expected cash flows. The Company's management believes there is no impairment of long-lived assets as of October 1, 2016. However, market conditions could change or demand for the Company's products could decrease, which could result in future impairment of long-lived assets.

#### *Warranty Liabilities*

The Company offers product warranties generally ranging from one to three years, depending on the product and negotiated terms of any purchase agreements with customers. Such warranties require the Company to repair or replace defective product returned to the Company during such warranty period at no cost to the customer. Warranties are not offered on sales of excess inventory. The Company records an estimate for warranty-related costs at the time of sale based on its historical and estimated product return rates and expected repair or replacement costs (see Note 3). While such costs have historically been consistent between periods and within management's expectations and the provisions established, unexpected changes in failure rates could have a material adverse impact on the Company, requiring additional warranty reserves and could adversely affect the Company's gross profit and gross margins.

#### *Stock-Based Compensation*

The Company accounts for equity issuances to non-employees in accordance with FASB ASC Topic 505. All transactions in which goods or services are the consideration received for the issuance of equity instruments are accounted for based on the fair value of the consideration received or the fair value of the equity instrument issued, whichever is more reliably measurable. The measurement date used to determine the estimated fair value of the equity instrument issued is the earlier of the date on which the third-party performance is complete or the date on which it is probable that performance will occur.

In accordance with FASB ASC Topic 718, employee and director stock-based compensation expense recognized during the period is based on the value of the portion of stock-based payment awards that is ultimately expected to vest during the period. Given that stock-based compensation expense recognized in the condensed consolidated statements of

operations is based on awards ultimately expected to vest, it has been reduced for estimated forfeitures. FASB ASC Topic 718 requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. The Company's estimated average forfeiture rates are based on historical forfeiture experience and estimated future forfeitures.

The estimated fair value of common stock option awards to employees and directors is calculated using the Black-Scholes option pricing model. The Black-Scholes model requires subjective assumptions regarding future stock price volatility and expected time to exercise, along with assumptions about the risk-free interest rate and expected dividends, all of which affect the estimated fair values of the Company's common stock option awards. The expected term of options granted is calculated as the average of the weighted vesting period and the contractual expiration date of the option. This calculation is based on the safe harbor method permitted by the SEC in instances where the vesting and exercise terms of options granted meet certain conditions and where limited historical exercise data is available. The expected volatility is based on the historical volatility of the Company's common stock. The risk-free rate selected to value any particular grant is based on the U.S. Treasury rate that corresponds to the expected term of the grant effective as of the date of the grant. The expected dividend assumption is based on the Company's history and management's expectation regarding dividend payouts. Compensation expense for common stock option awards with graded vesting schedules is recognized on a straight-line basis over the requisite service period for the last separately vesting portion of the award, provided that the accumulated cost recognized as of any date at least equals the value of the vested portion of the award.

The Company recognizes the fair value of restricted stock awards issued to employees and outside directors as stock-based compensation expense on a straight-line basis over the vesting period for the last separately vesting portion of the awards. Fair value is determined as the difference between the closing price of the Company's common stock on the grant date and the purchase price of the restricted stock award, if any, reduced by expected forfeitures.

If there are any modifications or cancellations of the underlying vested or unvested stock-based awards, the Company may be required to accelerate, increase or cancel any remaining unearned stock-based compensation expense, or record additional expense for vested stock-based awards. Future stock-based compensation expense and unearned stock-based compensation may increase to the extent that the Company grants additional common stock options or other stock-based awards.

#### *Income Taxes*

Under FASB ASC Topic 270, the Company is required to adjust its effective tax rate each quarter to be consistent with the estimated annual effective tax rate. The Company is also required to record the tax impact of certain discrete, unusual or infrequently occurring items, including changes in judgment about valuation allowances and effects of changes in tax laws or rates, in the interim period in which they occur. In addition, jurisdictions with a projected loss for the year or a year-to-date loss where no tax benefit can be recognized are excluded from the estimated annual effective tax rate. The impact of such an exclusion could result in a higher or lower effective tax rate during a particular quarter, based upon the mix and timing of actual earnings versus annual projections.

Deferred tax assets and liabilities are recognized to reflect the estimated future tax effects, calculated at currently effective tax rates, of future deductible or taxable amounts attributable to events that have been recognized on a cumulative basis in the condensed consolidated financial statements. A valuation allowance related to a net deferred tax asset is recorded when it is more likely than not that some portion of the deferred tax asset will not be realized.

FASB ASC Topic 740 prescribes a recognition threshold and measurement requirement for the financial statement recognition of a tax position that has been taken or is expected to be taken on a tax return and also provides guidance on de-recognition, classification, interest and penalties, accounting in interim periods, disclosure, and transition. Under FASB ASC Topic 740 the Company may only recognize or continue to recognize tax positions that meet a "more likely than not" threshold.

The application of tax laws and regulations is subject to legal and factual interpretation, judgment and uncertainty. Tax laws and regulations may change as a result of changes in fiscal policy, changes in legislation, the evolution of regulations and court rulings. Therefore, the actual liability for U.S. or foreign taxes may be materially

different from the Company's estimates, which could require the Company to record additional tax liabilities or to reduce previously recorded tax liabilities, as applicable.

*Research and Development Expenses*

Research and development expenditures are expensed in the period incurred.

*Risks and Uncertainties*

The Company is subject to certain risks and uncertainties, including its ability to obtain profitable operations due to the Company's history of losses and accumulated deficits, the Company's dependence on one or a few customers for a significant portion of revenues, risks related to intellectual property matters, market development of and demand for the Company's products, and the length of the sales cycle. Such risks could have a material adverse effect on the Company's consolidated financial position, results of operations or cash flows.

The Company has dedicated substantial resources to developing a robust intellectual property portfolio and it intends to continue investing in this portfolio, with the goal of further establishing the Company as an innovator in the high-performance memory subsystem market and identifying emerging customer requirements for future generations of products. However, the Company may be unsuccessful in these efforts and its investments of time, capital and other resources into its intellectual property portfolio may not provide adequate, or any, returns. The Company also dedicates substantial resources in protecting its intellectual property, including its efforts to defend its patents against challenges made by way of reexamination proceedings at the U.S. Patent and Trademark Office ("USPTO") and Patent Trial and Appeal Board ("PTAB"). The Company expects to continue this type of activity for the foreseeable future, without any guarantee that any ongoing or future patent protection and litigation activities will be successful. The Company is also subject to litigation claims that it has infringed on the intellectual property of others, against which the Company intends to defend vigorously. Litigation, whether or not eventually decided in the Company's favor or settled, is costly and time-consuming and could divert management's attention and resources. Because of the nature and inherent uncertainties of litigation, should the outcome of any of such actions be unfavorable, the Company's business, financial condition, results of operations or cash flows could be materially and adversely affected.

The Company has also invested a significant portion of its research and development budget into the design of application-specific integrated circuits ("ASIC") and field-programmable gate array ("FPGA") devices, including the HyperCloud and HybriDIMM memory subsystems, and the NVvault family of products. These products are subject to increased risks as compared to the Company's legacy products. The Company may be unable to achieve customer or market acceptance of its products, or achieve such acceptance in a timely manner. Further, the Company experienced a longer qualification cycle than anticipated with its HyperCloud memory subsystems, and has experienced supply chain disruption and a shortage of DRAM and NAND flash required to create the HyperCloud memory subsystem and NVvault products. As of October 1, 2016, Hypercloud has not generated significant revenue relative to the Company's investment in the product.

The Company's operations in the PRC are subject to various political, geographical and economic risks and uncertainties inherent to conducting business in the PRC. These include, but are not limited to, (i) potential changes in economic conditions in the region, (ii) managing a local workforce and overcoming other practical barriers, such as language and cultural differences, that may subject the Company to uncertainties or unfamiliar practices or regulatory policies, (iii) changes in the policies of the Chinese governmental and regulatory agencies, and (iv) changes in the laws and policies of the U.S. government regarding the conduct of business in foreign countries generally or in the PRC in particular. Additionally, the Chinese government controls the procedures by which its local currency, the Chinese Renminbi ("RMB"), is converted into other currencies and by which dividends may be declared or capital distributed for the purpose of repatriation of earnings and investments. If restrictions in the conversion of RMB or in the repatriation of earnings and investments through dividend and capital distribution restrictions are instituted, the Company's operations and operating results may be negatively impacted. The liabilities of the Company's subsidiary in the PRC exceeded its assets as of October 1, 2016 and January 2, 2016.

### *Foreign Currency Remeasurement*

The functional currency of the Company's foreign subsidiaries is the U.S. dollar. Local currency financial statements are remeasured into U.S. dollars at the exchange rate in effect as of the balance sheet date for monetary assets and liabilities and the historical exchange rate for nonmonetary assets and liabilities. Expenses are remeasured using the average exchange rate for the period, except items related to nonmonetary assets and liabilities, which are remeasured using historical exchange rates. All remeasurement gains and losses are included in determining net loss. Transaction gains and losses were not significant in the three and nine months ended October 1, 2016 or September 26, 2015.

### *Net Loss Per Share*

Basic net loss per share is calculated by dividing net loss by the weighted-average common shares outstanding during the period, excluding unvested shares issued pursuant to restricted share awards under the Company's share-based compensation plans. Diluted net loss per share is calculated by dividing the net loss by the weighted-average shares and dilutive potential common shares outstanding during the period. Dilutive potential shares consist of dilutive shares issuable upon the exercise or vesting of outstanding stock options, warrants and restricted stock awards, respectively, computed using the treasury stock method. In periods of losses, basic and diluted loss per share are the same, as the effect of stock options and unvested restricted share awards on loss per share is anti-dilutive.

### *Recent Accounting Pronouncements*

In May 2014, the FASB issued Accounting Standards Update ("ASU") No. 2014-09, *Revenue from Contracts with Customers* ("ASU 2014-09"). ASU 2014-09 supersedes the revenue recognition requirements in FASB Topic 605, *Revenue Recognition*. ASU 2014-9 implements a five-step process for customer contract revenue recognition that focuses on transfer of control, as opposed to transfer of risk and rewards. The amendment also requires enhanced disclosures regarding the nature, amount, timing and uncertainty of revenues and cash flows from contracts with customers. Other major provisions include the capitalization and amortization of certain contract costs, ensuring the time value of money is considered in the transaction price, and allowing estimates of variable consideration to be recognized before contingencies are resolved in certain circumstances. Entities can transition to the standard either retrospectively or as a cumulative-effect adjustment as of the date of adoption. On July 9, 2015, the FASB approved amendments deferring the effective date of ASU 2014-09 by one year to December 15, 2017 for annual reporting periods beginning after that date and permitting early adoption of the standard, but not before the original effective date or for reporting periods beginning after December 15, 2016. The Company has not yet selected a transition method and is currently assessing the impact the adoption of ASU 2014-9 will have on its consolidated financial statements and disclosures.

In August 2014, the FASB issued ASU No. 2014-15, *Presentation of Financial Statements - Going Concern*. The amendments in this update provide guidance in accounting principles generally accepted in the United States of America about management's responsibilities to evaluate whether there is substantial doubt about an entity's ability to continue as a going concern and to provide related footnote disclosures. The main provision of the amendments are for an entity's management, in connection with the preparation of financial statements, 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. Management's evaluation should be based on relevant conditions and events that are known or reasonably knowable at the date the consolidated financial statements are issued. When management identifies conditions or events that raise substantial doubt about an entity's ability to continue as a going concern, the entity should disclose information that enables users of the consolidated financial statements to understand all of the following: (1) principal conditions or events that raised substantial doubt about the entity's ability to continue as a going concern (before consideration of management's plans); (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 that alleviated substantial doubt about the entity's ability to continue as a going concern or management's plans that are intended to mitigate the conditions or events that raise substantial doubt about the entity's ability to continue as a going concern. The amendments in this update are effective for interim and annual reporting periods after December 15, 2016 and early application is permitted. The Company will apply the guidance and disclosure provisions of the new standard upon adoption in its 2016 annual consolidated financial statements.

In July 2015, the FASB issued ASU No. 2015-11, *Inventory (Topic 330)* ("ASU 2015-11"). The amendments in ASU 2015-11 require that an entity measure inventory within the scope at the lower of cost and net realizable value. Net realizable value is the estimated selling prices in the ordinary course of business, less reasonably predictable costs of

completion, disposal, and transaction. The amendments in this update more closely align the measurement of inventory in accounting principles generally accepted in the United States of America with the measurement of inventory in International Financial Reporting Standards. ASU 2015-11 is effective for annual and interim periods beginning on or after December 15, 2016. The amendments in this update should be applied prospectively with early application permitted as of the beginning of the interim or annual reporting period. The Company is currently assessing this guidance for future implementation.

In November 2015, the FASB issued ASU 2015-17, *Income Taxes (Topic 740), Balance Sheet Classification of Deferred Taxes* (“ASU 2015-17”), which eliminates the current requirement for an entity to separate deferred income tax liabilities and assets into current and non-current amounts in a classified balance sheet. Instead, the ASU requires deferred tax liabilities, deferred tax assets and valuation allowances to be classified as non-current in a classified balance sheet. ASU 2015-17 will be effective for annual reporting periods beginning after December 15, 2016 and interim periods within those annual periods. Early adoption is permitted. Additionally, this guidance may be applied either prospectively or retrospectively to all periods presented. The Company elected not to early adopt ASU 2015-17 and is evaluating the effect of the adoption of ASU 2015-17 on its consolidated financial statements.

In February 2016, the FASB issued ASU No. 2016-02, *Leases* (“ASU 2016-02”). Under ASU 2016-02, lessees will be required to recognize the following for all leases (with the exception of short-term leases) at the commencement date: a lease liability, which is a lessee’s obligation to make lease payments arising from a lease, measured on a discounted basis; and a right-of-use asset, which is an asset that represents the lessee’s right to use, or control the use of, a specified asset for the lease term. ASU 2016-02 is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Early application is permitted. Lessees must apply a modified retrospective transition approach for leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. The modified retrospective approach would not require any transition accounting for leases that expired before the earliest comparative period presented. Lessees may not apply a full retrospective transition approach. The Company is currently evaluating the impact of adopting ASU 2016-02 on its consolidated financial statements.

In March 2016, the FASB issued ASU No. 2016-09, *Compensation – Stock Compensation (Topic 718)* (“ASU 2016-09”), which simplified certain aspects of the accounting for share-based payment transactions, including income taxes, classification of awards and classification in the statement of cash flows. ASU 2016-09 will be effective for annual reporting periods beginning after December 15, 2016 and interim periods within those annual periods. The Company is currently evaluating the impact of adopting ASU 2016-09 on its consolidated financial statements.

### Note 3—Supplemental Financial Information

#### *Inventories*

Inventories consisted of the following as of the dates presented (in thousands):

	<b>(unaudited)</b> <b>October 1,</b> <b>2016</b>	<b>(audited)</b> <b>January 2,</b> <b>2016</b>
Raw materials	\$ 1,515	\$ 1,174
Work in process	84	98
Finished goods	1,393	386
	<u>\$ 2,992</u>	<u>\$ 1,658</u>

*Warranty Liabilities*

The following table summarizes activity related to warranty liabilities (in thousands):

	<b>Nine Months Ended</b>	
	<b>October 1, 2016</b>	<b>September 26, 2015</b>
Beginning balance	\$ 122	\$ 246
Estimated cost of warranty claims charged to cost of sales	33	29
Cost of actual warranty claims	(87)	(157)
Ending balance	68	118
Less current portion	(41)	(71)
Long-term warranty liability	<u>\$ 27</u>	<u>\$ 47</u>

The allowance for warranty liabilities expected to be incurred within one year is included as a component of accrued expenses and other current liabilities in the accompanying condensed consolidated balance sheets.

*Computation of Net Loss Per Share*

The following table sets forth the computation of net loss per share, including the numerator and denominator used in the calculation of basic and diluted net loss per share (in thousands, except per share data):

	<b>Three months ended</b>		<b>Nine Months Ended</b>	
	<b>October 1, 2016</b>	<b>September 26, 2015</b>	<b>October 1, 2016</b>	<b>September 26, 2015</b>
<b>Basic and diluted net loss per share:</b>				
Numerator: Net loss	\$ (4,401)	\$ (5,370)	\$ (7,308)	\$ (16,183)
Denominator: Weighted-average common shares outstanding, basic and diluted	52,454	50,354	51,301	48,471
Basic and diluted net loss per share	<u>\$ (0.08)</u>	<u>\$ (0.11)</u>	<u>\$ (0.14)</u>	<u>\$ (0.33)</u>

The table below sets forth potentially dilutive common share equivalents, consisting of shares issuable upon the exercise or vesting of outstanding stock options and restricted stock awards, respectively computed using the treasury stock method. These potential common shares have been excluded from the diluted net loss per share calculations above as their effect would be anti-dilutive for the periods presented (in thousands):

	<b>Three months ended</b>		<b>Nine Months Ended</b>	
	<b>October 1, 2016</b>	<b>September 26, 2015</b>	<b>October 1, 2016</b>	<b>September 26, 2015</b>
Common share equivalents	1,392	47	941	100

The above common share equivalents would have been included in the calculation of diluted net loss per share had the Company reported net income for the periods presented.

*Major Customers*

The Company's product sales have historically been concentrated in a small number of customers. The following table sets forth the percentage of the Company's net product sales made to customers comprising 10% or more of the Company's net product sales in the periods presented:

	Three Months Ended		Nine Months Ended	
	October 1, 2016	September 26, 2015	October 1, 2016	September 26, 2015
<b>Customer:</b>				
Customer A	* %	22 %	10 %	25 %
Customer B	* %	17 %	* %	* %
Customer C	17 %	* %	29 %	* %
Customer D	* %	* %	* %	10 %
Customer E	17 %	* %	* %	* %

\* less than 10% of net product sales during the period.

The Company's accounts receivable as of October 1, 2016 were concentrated with two customers, representing approximately 34% and 13% of aggregate gross receivables. At January 2, 2016, three customers represented approximately 24%, 19% and 14% of aggregate gross receivables. A significant reduction in sales to, or the inability to collect receivables from these or any of the Company's other significant customers could have a material adverse impact on the Company. The Company mitigates risk with foreign receivables by purchasing comprehensive foreign credit insurance.

*Cash Flow Information*

The following table sets forth supplemental disclosures of cash flow information and non-cash financing activities (in thousands):

	Nine Months Ended	
	October 1, 2016	September 26, 2015
Supplemental disclosure of non-cash financing activities:		
Debt issuance costs associated with February 2015 debt financing	\$ -	\$ 273
Acquisition of equipment through capital lease	\$ 179	\$ -
Debt financing of insurance	\$ 264	\$ 268
Issuance of shares for cashless warrant exercises	\$ 1	\$ -

**Note 4—Credit Agreement**

**SVB Credit Agreement**

On October 31, 2009, the Company entered into a credit agreement with Silicon Valley Bank (“SVB”), which was most recently amended on January 29, 2016 (as amended, the “SVB Credit Agreement” and such amendment, the “SVB Amendment”). Pursuant to the terms of the SVB Credit Agreement, the Company is eligible to borrow, in a revolving line of credit, up to the lesser of (i) 80% of its eligible accounts receivable, or (ii) \$5.0 million, subject to certain adjustments as set forth in the SVB Credit Agreement. The SVB Amendment modified certain terms of the SVB Credit Agreement in order to (i) extend the maturity date of advances under the SVB Credit Agreement to January 31, 2017, (ii) adjust the rate at which advances under the SVB Credit Agreement accrue interest to the Wall Street Journal “prime rate” plus 2.75% (prior to the SVB Amendment, advances under the SVB Credit Agreement accrued interest at a rate equal to SVB’s most recently announced “prime rate” plus 2.75%), and (iii) effective as of December 1, 2015, adjust certain of the Company’s financial covenants under the SVB Credit Agreement, including relaxing the Company’s adjusted quick ratio covenant and removing the Company’s tangible net worth covenant. Additionally, pursuant to the terms of the SVB Amendment, SVB allowed for the financing and security interests contemplated under the debt instrument issued to SVIC (see Note 5) and released certain patents and related assets relating to the NVvault® product line from the collateral subject to SVB’s security interest under the SVB Credit Agreement.

The SVB Credit Agreement requires letters of credit to be secured by cash, which is classified as restricted cash in the accompanying condensed consolidated balance sheets. At October 1, 2016 and January 2, 2016, letters of credit in the amount of \$1.1 million and \$0.4 million, respectively, were outstanding.

At October 1, 2016 and January 2, 2016, the Company had no borrowings under the SVB Credit Agreement. The following table presents details of the Company’s availability under the SVB Credit Agreement as of the dates presented:

	<b>October 1, 2016</b>	<b>January 2, 2016</b>
Availability under the SVB Credit Agreement	\$ 913	\$ 530

All obligations under the SVB Credit Agreement are secured by a first priority lien on the Company’s tangible and intangible assets, other than certain patents and related assets relating to the NVvault product line, which is subject to a first priority lien held by SVIC. The SVB Credit Agreement subjects the Company to certain affirmative and negative covenants, including financial covenants with respect to the Company’s liquidity and restrictions on the payment of dividends. As of October 1, 2016, the Company was in compliance with its covenants under the SVB Credit Agreement.

**Note 5—Debt**

The Company’s debt consisted of the following as of the dates presented (in thousands):

	<b>October 1, 2016</b>	<b>January 2, 2016</b>
Convertible promissory note, SVIC, net of debt discount of \$1,138 and \$1,301 in 2016 and 2015, respectively	\$ 13,862	\$ 13,699
Accrued interest on convertible promissory note with SVIC	250	-
Notes payable and capital lease obligation	206	13
	<u>\$ 14,318</u>	<u>\$ 13,712</u>
Less current portion	(183)	(13)
	<u>\$ 14,135</u>	<u>\$ 13,699</u>

[Table of Contents](#)

On November 18, 2015 (“Closing Date”), the Company entered into the SVIC Purchase Agreement with SVIC, pursuant to which the Company sold to SVIC a Senior Secured Convertible Promissory Note (“SVIC Note”) and a Stock Purchase Warrant (“SVIC Warrant”), each dated as of the Closing Date. The SVIC Note has an original principal amount of \$15.0 million, accrues interest at a rate of 2.0% per year, is due and payable in full on December 31, 2021 (“SVIC Note Maturity Date”) and the principal and accrued but unpaid interest are convertible into shares of the Company’s common stock at a conversion price of \$1.25 per share (the “Conversion Price”), subject to certain adjustments as set forth therein on the SVIC Note Maturity Date. Upon a change of control of the Company prior to the SVIC Note Maturity Date, the SVIC Note may, at the Company’s option, be assumed by the surviving entity or be redeemed upon the consummation of such change of control for the principal and accrued but unpaid interest as of the redemption date. The SVIC Warrant grants SVIC a right to purchase 2,000,000 shares of the Company’s common stock at an exercise price of \$0.30 per share, subject to certain adjustments as set forth therein, is only exercisable in the event the Company exercises its right to redeem the SVIC Note prior to the SVIC Note Maturity Date, and expires on December 31, 2025. The SVIC Warrant was valued at \$1,165,000, based on its relative fair value, and was recorded as a debt discount. The Company also recorded \$154,000 as a debt discount for professional services rendered. These amounts will be amortized over the term of the SVIC Note using the effective interest method. For the three and nine months ended October 1, 2016, the Company amortized approximately \$55,000 and \$163,000 respectively, to interest expense in the condensed consolidated statements of operations.

In connection with the SVIC Note, SVIC was granted a first priority security interest in the Company’s patent portfolio and a second priority security interest in all of the Company’s other assets. On the Closing Date, the Company, SVB and SVIC entered into an Intercreditor Agreement pursuant to which SVB and SVIC agreed to their relative security interest in the Company’s assets. On the Closing Date, the Company and SVIC also entered into a Registration Rights Agreement pursuant to which the Company is obligated to register with the SEC, upon demand by SVIC, the shares of the Company’s common stock issuable upon conversion of the SVIC Note or upon exercise of the SVIC Warrant. On August 26, 2016, SVIC agreed to waive the covenant in which the Company is to maintain sufficient authorized and unissued shares for the full conversion of the note and interest balance upon maturity. The Waiver is valid through December 31, 2017. The Company agrees to increase the number of authorized shares to an amount sufficient to comply with the reservation provision of the SVIC Purchase Agreement.

Interest expense, including amortization of debt discounts, net of interest income, is presented in the following table (in thousands):

	Three Months Ended		Nine Months Ended	
	October 1, 2016	September 26, 2015	October 1, 2016	September 26, 2015
Interest expense:				
SVB	\$ 13	\$ 13	\$ 31	\$ 40
Fortress Credit Opportunities I LP (repaid in fiscal 2015)	-	430	-	1,373
SVIC	135	-	394	-
Others	14	5	16	7
	162	448	441	1,420
Interest income	(3)	(1)	(13)	(4)
	\$ 159	\$ 447	\$ 428	\$ 1,416

**Note 6—Income Taxes**

The following table sets forth the Company’s provision for income taxes, along with the corresponding effective tax rates (in thousands, except percentages):

	Three Months Ended		Nine Months Ended	
	October 1, 2016	September 26, 2015	October 1, 2016	September 26, 2015
Provision for income taxes	\$ -	\$ -	\$ 1	\$ 1
Effective tax rate	- %	- %	(0.01)%	(0.01)%

The Company evaluates whether a valuation allowance should be established against its deferred tax assets based on the consideration of all available evidence using a “more likely than not” standard. Due to uncertainty of future utilization, the Company has provided a full valuation allowance as of October 1, 2016 and January 2, 2016. Accordingly, no benefit has been recognized for net deferred tax assets.

The Company does not have any unrecognized tax benefits as of October 1, 2016 and January 2, 2016.

**Note 7—Commitments and Contingencies****Litigation and Patent Reexaminations**

The Company owns numerous patents and continues to seek to enlarge and strengthen its patent portfolio, which covers different aspects of the Company’s technology innovations with various claim scopes. The Company plans to pursue avenues to monetize its intellectual property portfolio, in which it would generate revenue by selling or licensing its technology, and it intends to vigorously enforce its patent rights against infringers of such rights. The Company dedicates substantial resources to protecting its intellectual property, including its efforts to defend its patents against challenges made by way of reexamination proceedings at the PTAB or USPTO. These activities are likely to continue for the foreseeable future, without any guarantee that any ongoing or future patent protection and litigation activities will be successful, or that the Company will be able to monetize its intellectual property portfolio. The Company is also subject to litigation claims that it has infringed on the intellectual property of others, against which the Company intends to defend itself vigorously.

Litigation, whether or not eventually decided in the Company’s favor or settled, is costly and time-consuming and could divert management’s attention and resources. Thus, because of the nature and inherent uncertainties of litigation, even if the outcome of any of such actions is favorable, the Company’s business, financial condition, results of operations or cash flows could be materially and adversely affected. Additionally, the outcome of pending litigation, and related patent reexaminations, as well as any delay in their resolution, could affect the Company’s ability to license its intellectual property in the future or to protect against competition in the current and expected markets for its products.

*Google Litigation*

In December 2009, the Company filed a patent infringement lawsuit against Google, Inc. (“Google”) in the U.S. District Court for the Northern District of California (the “Northern District Court”), seeking damages and injunctive relief based on Google’s infringement of U.S. Patent No. 7,619,912 (“the ‘912 patent”), which relates generally to technologies to implement rank multiplication. In February 2010, Google answered the Company’s complaint and asserted counterclaims against the Company seeking a declaration that the patent is invalid and not infringed, and claiming that the Company committed fraud, negligent misrepresentation and breach of contract based on the Company’s activities in the JEDEC standard-setting organization. The counterclaim seeks unspecified compensatory damages. Accruals have not been recorded for loss contingencies related to Google’s counterclaim because it is not probable that a loss has been incurred and the amount of any such loss cannot be reasonably estimated. In October 2010, Google

requested and was later granted an *Inter Partes* Reexamination of the '912 patent by the USPTO. The reexamination proceedings are described below. In connection with the reexamination request, the Northern District Court granted the Company and Google's joint request to stay the '912 patent infringement lawsuit against Google until the completion of the reexamination proceedings.

#### *Inphi Litigation*

In September 2009, the Company filed a patent infringement lawsuit against Inphi Corporation ("Inphi") in the U.S. District Court for the Central District of California (the "Central District Court"). The complaint, as amended, alleges that Inphi is contributorily infringing and actively inducing the infringement of U.S. patents owned by the Company, including the '912 patent, U.S. Patent No. 7,532,537 ("the '537 patent"), which relates generally to memory modules with load isolation and memory domain translation capabilities, and U.S. Patent No. 7,636,274 ("the '274 patent"), which is related to the '537 patent and relates generally to load isolation and memory domain translation technologies. The Company is seeking damages and injunctive relief based on Inphi's use of the Company's patented technology. Inphi denied infringement and claimed that the three patents are invalid. In April 2010, Inphi requested but was later denied *Inter Partes* Reexaminations of the '912, '537 and '274 patents by the USPTO. In June 2010, Inphi submitted new requests and was later granted *Inter Partes* Reexaminations of the '912, '537 and '274 patents by the USPTO. The reexamination proceedings are described below. In connection with the reexamination requests, Inphi filed a motion to stay the patent infringement lawsuit with the Central District Court, which was granted. The Central District Court has requested that the Company notify it within one week of any action taken by the USPTO in connection with the reexamination proceedings, at which time the Central District Court may decide to maintain or lift the stay.

#### *SanDisk, Smart Modular, Smart Worldwide, and Diablo Litigations*

In September 2012, Smart Modular, Inc. ("Smart Modular") filed a patent infringement lawsuit against the Company in the U.S. District Court for the Eastern District of California (the "Eastern District Court"). The complaint alleges that the Company willfully infringes and actively induces the infringement of six claims of a U.S. patent newly issued to Smart Modular, U.S. Patent No. 8,250,295 ("the '295 patent"), and seeks damages and injunctive relief. Smart Modular also filed a motion for preliminary injunction and a memorandum in support of the motion on the same day of the complaint. The Company promptly filed a request for reexamination of the '295 patent with the USPTO setting forth six different combinations of prior art that would render the six asserted claims of the '295 patent unpatentable. The Company also filed an answer to Smart Modular's complaint with the Eastern District Court in October 2012 to deny infringement of the '295 patent, assert that the '295 patent is invalid and unenforceable, and bring a set of counterclaims against Smart Modular. Smart Modular filed various motions on the pleadings on November 1, 2012, which were opposed by the Company in its briefs filed in late November 2012.

In December 2012, the USPTO granted the Company's request for the reexamination of the '295 patent, and issued an Office Action rejecting all of the six asserted claims over the six different combinations of prior art set forth by the Company in its request. The Company promptly moved to stay litigation pending result of reexamination. On February 19, 2013, a few days after Smart Modular filed replies in support of its motions, the Eastern District Court issued a Minute Order, in which the court on its own motion took the preliminary injunction; the motion to dismiss and the motion to stay under submission without oral argument and vacated the hearing dates.

On February 7, 2013, Smart Modular filed a response to the Office Action in the reexamination of the '295 patent. Thereafter, the Company and Smart Modular made various filings to address certain apparent defects contained in Smart Modular's response. On March 13, 2013, the USPTO issued a Notice of Defective Paper, in which the USPTO found Smart Modular's responses, both the initial filing and a supplemental filing, to be improper, and both responses were expunged from the record. The USPTO gave Smart Modular 15 days to submit another response, which Smart Modular submitted on March 26, 2013. The Company timely filed its comments on Smart Modular's corrected response on April 25, 2013. The USPTO ultimately accepted Smart Modular's corrected response on July 17, 2013. On April 29, 2014, the USPTO issued an Action Closing Prosecution ("ACP"), confirming some claims and rejecting others. Smart Modular filed a response to the ACP on May 29, 2014, and Netlist filed comments related to Smart Modular's response on June 30, 2014. On August 4, 2015, the USPTO issued a Right of Appeal Notice confirming all pending claims. On

September 4, 2015, the Company appealed to the PTAB at the USPTO. Thus, the reexamination of the '295 patent remains pending and will continue in accordance with established procedures for reexamination proceedings.

On May 30, 2013, the Eastern District Court issued an order granting Netlist's motion to stay pending results of the reexamination of the '295 patent and denied Smart Modular's motion for preliminary injunction. On May 5, 2016, Smart Modular filed a motion to lift the stay. Netlist filed its opposition to Smart Modular's motion on June 2, 2016, and Smart Modular filed its reply on June 9, 2016. On September 21, 2016, the Eastern District Court granted Smart Modular's motion to lift the stay and the action will now move forward in accordance with established procedures.

On July 1, 2013, Netlist filed a complaint against Smart Modular in the Santa Ana Division of the U.S. District Court for the Central District of California ("Central District Court"), seeking, among other things, relief under federal antitrust laws for Smart Modular's violation of Section 2 of the Sherman Act, and damages and other equitable relief under California statutory and common law for Smart Modular's unfair competition, deceptive trade practices and fraud.

On August 23, 2013, Netlist filed an amended complaint for patent infringement, antitrust violations and trade secret misappropriation against Smart Modular, Smart Storage Systems ("Smart Storage"), Smart Worldwide Holdings ("Smart Worldwide") and Diablo Technologies ("Diablo") in the Central District Court. Smart Storage was acquired by SanDisk Corporation ("SanDisk") on August 22, 2013. Netlist's amended complaint alleges infringement of five Netlist patents by the defendants based on the manufacture and sale of the ULLtraDIMM memory module. Netlist's complaint also alleges antitrust violations by Smart Modular and Smart Worldwide, contending that Smart Modular procured the '295 patent with blatant inequitable conduct at the USPTO, withheld the patent application leading to the patent from relevant JEDEC committees for more than eight years, sought to improperly enforce that patent against Netlist's JEDEC-compliant HyperCloud® product by seeking a preliminary injunction against Netlist based on the patent, which was denied by the Eastern District Court, and made deceptive statements to the public about its lawsuit against Netlist. Netlist's complaint also alleges trade secret misappropriation and trademark infringement against Diablo, claiming that Diablo misused Netlist trade secrets to create the ULLtraDIMM product for Smart Storage (now SanDisk), and that Diablo used Netlist's HyperCloud® technology to create competing products.

On the same day Netlist filed its amended complaint, Smart Modular and Diablo each filed a complaint in the San Francisco Division of the U.S. District Court Northern District of California ("Northern District Court"), seeking declaratory judgment of non-infringement and invalidity of the patents asserted in the Netlist's amended complaint. On September 9, 2013, Netlist filed a Motion to Dismiss or Transfer these declaratory judgment complaints to the Central District Court. This motion was denied by the Northern District Court on October 10, 2013.

In the Central District Court, Smart Modular and Smart Worldwide filed motions on September 13, 2013, to dismiss or sever various counts related to the '295 patent. On September 26, 2013, Diablo filed a motion to dismiss Netlist's claims for trade secret misappropriation, breach of contract, and unfair competition. On October 29, 2013, Smart Modular and Diablo filed motions to dismiss or transfer the patent claims related to the ULLtraDIMM memory module. On November 26, 2013, the Central District Court: (i) severed and transferred the claims related to the '295 patent to the Eastern District Court, which were stayed by the Eastern District Court on March 7, 2014, along with the other '295 related claims pending results of the '295 reexamination; (ii) severed and transferred to the Northern District Court the patent claims related to the ULLtraDIMM memory module; (iii) issued an order to show cause why the remaining claims should not also be transferred to the Northern District Court; and (iv) held in abeyance Diablo's pending motion to dismiss and motion for judgment on the pleadings. The parties filed briefs in response to the order to show cause, and then on December 23, 2013, the Central District Court ordered the remaining claims to be transferred to the Northern District Court. All of the claims from the amended complaint filed on August 23, 2013, in the Central District Court have now been transferred to either the Northern District Court or the Eastern District Court.

As reported in its Current Report on Form 8-K filed on December 13, 2013, Netlist received a whistleblower letter postmarked from Canada (where Diablo is based) on November 13, 2013, and obviously written by a current or former Diablo employee. The letter begins by bluntly stating that Diablo stole Netlist's architecture and design, and goes on to explain that Diablo used Netlist's HyperCloud product to create the ULLtraDIMM product, which it then used in demonstrations to major customers including IBM and Hewlett-Packard. The letter further states that Diablo's management conspired to hide this theft by instructing its employees not to speak to customers about the fact that

Netlist's product was incorporated into ULLtraDIMM. The letter includes diagrams showing how Diablo implemented the theft of Netlist's trade secrets, as well as the names of former Diablo employees, customers and suppliers who can verify the theft. The Current Report on Form 8-K included as an exhibit a partially redacted copy of the whistleblower letter. On December 13, 2013, Diablo filed an ex parte application in the Northern District Court requesting that the Court issue an order to show cause why Netlist should not be sanctioned for attaching the redacted copy of the whistleblower letter to the Current Report on Form 8-K. The Northern District Court heard the parties' arguments on December 16, 2013, and on January 3, 2014, issued an order denying Diablo's application for sanctions, finding that Diablo had not established a basis for finding the information in the Current Report on Form 8-K and its attachments "confidential" and therefore had not shown why it should be granted the relief sought.

On January 21, 2014, Netlist filed a motion for leave to file a second amended answer and counterclaims in the Northern District Court to assert two additional patents, bringing the total to seven patents asserted against the ULLtraDIMM. Diablo did not oppose Netlist's motion, and the parties filed a joint stipulation and proposed order on February 3, 2014, requesting an additional two months be added to the case schedule to account for the additional patents. On February 5, 2014, the Northern District Court granted Netlist's motion to add the two patents and entered a new case schedule. On February 12, 2014, the Northern District Court granted the parties' joint stipulation dismissing Smart Modular without prejudice. On April 7, 2014, the Northern District Court granted Netlist's motion for leave to file a Second Amended Complaint in the patent case.

On March 21, 2014, Netlist filed a Second Amended Complaint against Diablo in the Northern District Court, Case No. 4:13-CV-05962 (the "trade secret case"), alleging, among other things, that in stealing Netlist's proprietary HyperCloud and DxD and LRD technologies, Diablo breached its contracts with Netlist, committed trademark violations, and misappropriated Netlist's trade secrets. Also on March 21, 2014, Netlist served Diablo with its Amended Trade Secret Disclosure, detailing approximately 60 trade secrets Netlist taught to Diablo in connection with the contracted and confidential work on the HyperCloud project. On April 9, 2014, Diablo filed a motion to dismiss Netlist's Second Amended Trade Secret Complaint, as well as a motion for judgment on the pleadings. That motion was heard by the Northern District Court on May 13, 2014, and on September 4, 2014, denied the motion with respect to all grounds except one, which Netlist did not contest.

On April 1, 2014, the Northern District Court denied Diablo's motion to strike Netlist's infringement contentions, finding that Netlist's contentions did indeed satisfy the relevant requirements and, on April 7, 2014, granted Netlist's motion to compel defendants to produce certain discovery materials related to the ULLtraDIMM. Diablo filed a motion for relief from these two rulings, which was denied on April 8, 2014. Also on April 7, 2014, the Northern District Court granted Netlist's motion for issuance of Letters Rogatory to the Canadian courts requesting that summons be issued for two former Diablo employees living in Canada and named in the whistleblower letter to produce documents and to be deposed. These depositions occurred in late August 2014.

On April 8, 2014, the Northern District Court granted Netlist's motion to consolidate the patent related cases (Case Nos. 4:13-CV-05889-YGR and 4:13-CV-03901-YGR) and to coordinate discovery with the trade secret case (4:13-CV-05962-YGR), and denied Diablo's motion to further consolidate the patent and trade secret cases. On April 15, 2014, the Northern District Court granted the parties' joint stipulation dismissing Smart Worldwide without prejudice. On April 30, 2014, the Northern District Court denied Diablo's request that Netlist's Amended Trade Secret Disclosure and exhibits thereto be re-designated as "Confidential" from the current designation of "Highly Confidential --Attorneys' Eyes Only".

Between June 18, 2014 and June 24, 2014, SanDisk filed petitions in the USPTO requesting *Inter Partes* Review ("IPR") of the five Netlist patents asserted in the August 23, 2013 amended complaint. Diablo similarly filed petitions requesting IPR of the two Netlist patents added in the second amended answer filed on January 21, 2014. Netlist filed patent owner preliminary responses to all of the petitions associated with the seven asserted Netlist patents. The USPTO issued decisions on the petitions in December, 2014, denying the petitions in their entirety as to three patents (U.S. Patent Nos. 8,516,187; 8,301,833; 8,516,185), granting a partial institution on one patent (U.S. Patent No. 8,001,434), and instituting a review of all claims in three patents (U.S. Patent Nos. 7,881,150; 8,081,536; 8,359,501). Reviews will therefore proceed related to four Netlist patents (U.S. Patent Nos. 8,001,434; 7,881,150; 8,081,536; 8,359,501) in accordance with established procedures. On April 7, 2015, SanDisk filed additional petitions in the

USPTO requesting IPR of the '150 and '536 patents that were already under review. On October 8, 2015, the USPTO issued decisions on the additional petitions, instituting reviews of the '150 and '536 patents. On December 14, 2015, the PTAB issued decisions in the first wave of reviews of the '434 and '501 patents, finding that certain of the challenged claims in the '434 and '501 patents were valid, and that others were not. On the same day, the PTAB also issued decisions on the first wave of reviews of the '150 and '536 patents, finding all of the challenged claims invalid. On April 27, 2016, the PTAB denied SanDisk's request for rehearing as to the '434 patent, and granted SanDisk's request for rehearing as to two claims of the '501 patent. An oral hearing was conducted on June 28, 2016, in the second wave of reviews of the '150 and '536 patents, and on July 1, 2016, the PTAB requested the parties to file post-hearing briefs. Decisions in the second wave of the '150 and '536 patent reviews were issued on September 28, 2016. Netlist and the petitioners will have an opportunity to appeal all of these decisions to the Court of Appeals for the Federal Circuit ("Federal Circuit") in accordance with established procedures.

On August 23, 2014, Smart Modular also filed petitions in the USPTO requesting IPR of the five Netlist patents asserted in the August 23, 2013 amended complaint. Netlist filed patent owner preliminary responses to all of the Smart Modular petitions in December, 2014. On March 13, 2015, the USPTO issued decisions on the Smart Modular petitions, denying the petitions in their entirety as to the same three patents that survived the petitions filed by SanDisk in June, 2014 (U.S. Patent Nos. 8,516,187; 8,301,833; 8,516,185), and instituted additional reviews of the two other patents already under review (U.S. Patent No. 8,001,434; 8,359,501). On March 9, 2016, the PTAB issued decisions on the additional reviews of the '434 and '501 patents, finding that certain of the challenged claims were valid, and that others were not. Netlist and Smart Modular have appealed these decisions to the Federal Circuit in accordance with established procedures.

SanDisk filed a motion on June 24, 2014, to stay the Northern District patent cases pending completion of the IPRs (Diablo later joined this motion). Netlist filed its opposition to the motion to stay on July 10, 2014. The Northern District Court heard oral arguments on the motion to stay in early August 2014, and issued an order on August 21, 2014, denying the motion without prejudice. SanDisk renewed its motion to stay on January 20, 2015 and on April 9, 2015, the Court granted the motion for a stay pending resolution of the IPRs.

On October 6, 2014, Netlist filed a Motion for Preliminary Injunction in the Northern District Court trade secret suit, asking that Diablo and its partner SanDisk be immediately enjoined from any further manufacture or sale of the ULLtraDIMM module. The Court granted in part Netlist's motion on January 6, 2015, and entered a preliminary injunction halting the manufacture, use, sale, or distribution of the Diablo Rush and Bolt chips and any ULLtraDIMM module containing those chips, and advanced the trial date to March 9, 2015 on the trade secret misappropriation, breach of contract, and other related claims (4:13-CV-05962-YGR). SanDisk and Diablo filed motions with the U.S. Court of Appeals for the Federal Circuit appealing the January 6, 2015, preliminary injunction and asking for expedited briefing and a stay of the preliminary injunction during the pendency of the appeals. The Federal Circuit denied both requests for expedited briefing, denied Diablo's request for a stay, but granted SanDisk's narrower request for a stay of the preliminary injunction as to SanDisk's existing inventory of enjoined products.

The trial commenced on schedule and continued for two weeks, with closing arguments on March 23, 2015. On March 25, 2015, the jury came back with a verdict finding for the defendant on the breach of contract, misappropriation of trade secret and inventorship counts, while finding for Netlist on the trademark and false advertising counts. After the verdict, the court ordered briefing to determine the effect of the jury verdict on the preliminary injunction entered on January 6, 2015, and following oral argument on April 24, 2015, issued an order dissolving the preliminary injunction. The court further issued Findings of Fact and Conclusions of Law on Netlist's unfair competition claims granting no relief under the statute based on the jury's verdict. The parties briefed their post-trial motions in May and June of 2015, including Netlist's motion for Judgment as a Matter of Law ("JMOL") to reverse the jury's verdict as to breach of contract and for a new trial on misappropriation of trade secrets. Oral arguments on the post-trial motions were heard by the court on July 8, 2015. On September 1, 2015, the Court denied motions from both parties for JMOL, Netlist's motion for a new trial, and Diablo's motion for attorney's fees, but granted Diablo's motion to recover on the preliminary injunction a \$900,000 bond posted early in the litigation and its bill of costs. This expense is included in other expense, net in the accompanying consolidated statements of operation for the year ended January 2, 2016. On September 29, 2015, Netlist filed a Notice of Appeal to the Federal Circuit and on December 8, 2015, filed an

Opening Brief and on March 14, 2016, filed its Reply Brief. The Federal Circuit issued a decision on July 11, 2016, affirming the decision of the lower court.

*'386 Patent Reexamination*

As noted above, in May 2010, Google requested and was later granted an *Inter Partes* Reexamination of the '386 patent by the USPTO. In October 2010, Smart Modular requested and was later granted an *Inter Partes* Reexamination of the '386 patent. The reexaminations requested by Google and Smart Modular were merged by the USPTO into a single proceeding. In April 2011, a Non-Final Action was issued by the USPTO, rejecting all claims in the patent. In July 2011, the Company responded by amending or canceling some of the claims, adding new claims, and making arguments as to the validity of the rejected claims in view of cited references. Both Google and Smart Modular filed their comments to the Company's response in October 2011. In October 2012, the USPTO issued an ACP rejecting all 60 claims. The Company filed a response to the ACP on December 3, 2012. On June 21, 2013, the USPTO issued a Right of Appeal Notice ("RAN") in which the examiner maintained his rejection of the claims. Netlist filed a notice of appeal on July 19, 2013. Google filed a notice of cross-appeal on August 2, 2013, and a cross-appeal brief on October 1, 2013. The Company filed an appeal brief and an amendment canceling some of the remaining claims on October 2, 2013 to further focus the issues on appeal. On February 24, 2014, the examiner entered the amendment canceling claims, withdrew the rejections related to those claims, but otherwise maintained the positions previously set forth in the RAN. On September 24, 2014, the USPTO set a hearing date of November 19, 2014. After the hearing, on February 25, 2015, the PTAB issued a decision affirming the examiner's rejections of the pending claims. The Company requested rehearing of the PTAB's decision on March 25, 2015. On August 27, 2015, the PTAB denied the Company's request for rehearing. Netlist appealed to the Federal Circuit on October 26, 2015. The appeal was dismissed on January 28, 2016 by Netlist. Thus, the reexamination of the '386 patent terminated in accordance with established procedures for merged reexamination proceedings with the cancellation of the original claims.

*'912 Patent Reexamination*

As noted above, in April 2010, Inphi requested but was later denied an *Inter Partes* Reexamination of the '912 patent by the USPTO. In June 2010, Inphi submitted a new request and was later granted an *Inter Partes* Reexamination of the '912 patent by the USPTO. In September 2010, the USPTO confirmed the patentability of all fifty-one claims of the '912 patent. In October 2010, Google and Smart Modular each filed and were later granted requests for reexamination of the '912 patent. In February 2011, the USPTO merged the Inphi, Google and Smart Modular '912 reexaminations into a single proceeding. In an April 2011 Non-Final Action in the merged reexamination proceeding, the USPTO rejected claims 1-20 and 22-51 and confirmed the patentability of claim 21 of the '912 patent. In July 2011, the Company responded by amending or canceling some of the claims, adding new claims, and making arguments as to the validity of the rejected claims. Inphi, Google, and Smart Modular filed their comments on the Company's response in August 2011. In October 2011, the USPTO mailed a second Non-Final Action confirming the patentability of twenty claims of the '912 patent, including claims that were added in the reexamination process. In January 2012, the Company responded by amending or canceling some of the claims, adding new claims, and making arguments as to the validity of the rejected claims. Google, Inphi and Smart Modular filed their comments to the Company's response in February 2012. The USPTO determined that Smart Modular's comments were defective, and issued a notice to Smart Modular to rectify and resubmit its comments. Smart Modular filed corrected comments and a petition for the USPTO to withdraw the notice in March 2012. The USPTO issued a non-final Office Action on November 13, 2012 maintaining the patentability of many key claims while rejecting some claims that were previously determined to be patentable. The Company filed a response to the Office Action on January 14, 2013. The requesters filed their comments on February 13, 2013. On March 21, 2014, the USPTO issued an ACP, confirming the patentability of 92 claims and maintaining the rejection of 11 other claims. On June 18, 2014, the USPTO issued a RAN, maintaining the substantive positions taken by the examiner in the ACP. Smart Modular, Inphi and Google filed notices of appeal on July 16, July 18 and July 18, 2014, respectively. Netlist filed a notice of cross-appeal on July 30, 2014. Smart Modular, Inphi and Google filed their respective appeal briefs on September 16, September 30 and September 30, 2014. Netlist filed its cross-appeal brief on September 30, 2014. On January 14, 2015, the examiner maintained his positions previously set forth in the RAN. The parties filed respective rebuttal briefs in February 2015. On September 29, 2015, the PTAB set a hearing date for November 24, 2015 on the parties' appeals. The hearing was conducted on November 24, 2015. On May 31, 2016, the PTAB issued a decision affirming certain of the examiner's decisions and reversing others. Thus, the reexamination of

the '912 patent remains pending and will continue in accordance with established procedures for merged reexamination proceedings.

#### *'627 Patent Reexamination*

In September 2011, Smart Modular filed a request for reexamination of U.S. Patent No. 7,864,627 (“the ‘627 patent”) issued to the Company on January 4, 2011. The ‘627 patent is related to the ‘912 patent. In November 2011, the USPTO granted Smart Modular’s request for reexamination of the ‘627 patent and concurrently issued a Non-Final Action confirming the patentability of three claims. In February 2012, the Company responded by amending or canceling some of the claims, adding new claims, and making arguments as to the validity of the rejected claims. Smart Modular filed its comments to the Company’s response in March 2012. The USPTO determined that Smart Modular’s comments were defective and issued a notice in April 2012 to Smart Modular to rectify and resubmit its comments. Smart Modular filed corrected comments and a petition for the USPTO to withdraw the notice in April 2012. The USPTO posted an Office Action on December 19, 2012, confirming one claim and rejecting the rest of the claims in the ‘627 patent. The Company filed a response to the Office Action on March 19, 2013. Smart Modular filed its comments on the Office Action on April 24, 2013. The USPTO issued another Non-Final Office Action on September 26, 2013, withdrawing certain rejections while adopting new rejections for certain of the pending claims. The Company responded to the Non-Final Office Action on November 26, 2013, by amending some of the claims and making arguments as to the validity of the rejected claims. On March 27, 2014, the USPTO issued an ACP, maintaining the claim rejections. On June 27, 2014, the USPTO issued a RAN, maintaining the substantive positions taken by the examiner in the ACP. Netlist filed a notice of appeal on July 28, 2014. On October 14, 2014, the Company filed its appeal brief and, on November 13, 2014, Smart Modular filed its respondent’s brief. On April 27, 2015, the USPTO issued an Examiner’s Answer to Appeal Brief in which the examiner continued to maintain the substantive positions taken previously. On May 27, 2015, the Company filed a Patent Owner Rebuttal Brief in response to the Examiner’s Answer. On October 9, 2015, the PTAB set a hearing date for December 11, 2015 on the Company’s appeal. The hearing was conducted on November 24, 2015. On May 31, 2016, the PTAB issued a decision affirming the decisions of the examiner. Thus, the reexamination of the ‘627 patent remains pending and will continue in accordance with established Inter Partes Reexamination procedures.

#### *'537 Patent Reexamination*

As noted above, in April 2010, Inphi requested and was later denied an *Inter Partes* Reexamination of the ‘537 patent by the USPTO. In June 2010, Inphi submitted a new request and was later granted an *Inter Partes* Reexamination of the ‘537 patent by the USPTO. In September 2010, the USPTO issued a Non-Final Action confirming the patentability of four claims. In October 2010, the Company responded by amending or canceling some of the claims, adding new claims, and making arguments as to the validity of the rejected claims. Inphi filed its comments on the Company’s response in January 2011. In June 2011, the USPTO issued an ACP, which reconfirmed the patentability of the four claims. In August 2010, the Company responded by amending some of the claims and making arguments as to the validity of the rejected claims. Inphi filed its comments to the Company’s response in September 2011. The USPTO issued a Right of Appeal Notice in February 2012, in which the claim rejections were withdrawn, thus confirming the patentability of all 60 claims in view of all the previously submitted comments by both Inphi and the Company. Inphi filed a notice of appeal in March 2012 followed by an appeal brief in May 2012. In response, the USPTO issued a Notice of Defective Appeal Brief. Inphi filed a corrective appeal brief in late May 2012, and the Company filed its reply brief to the corrected Inphi appeal brief in early July 2012. The examiner responded to Inphi’s corrected appeal brief as well as the Company’s reply brief by Examiner’s Answer on April 16, 2013, in which he maintained his position confirming all sixty (60) claims. Inphi filed a rebuttal brief on May 16, 2013. Netlist filed a request for oral hearing on June 14, 2013. The Company and the examiner jointly defended the ‘537 patent in a hearing on November 20, 2013 before the PTAB. On January 16, 2014, the PTAB issued a decision upholding the validity of all 60 claims, dismissing every single validity challenge raised by Inphi and affirming the examiner’s decision to allow the claims. On August 13, 2014, the PTAB denied Inphi’s request for rehearing and made its decision final for judicial review to the Federal Circuit. On October 15, 2014, Inphi filed a Notice of Appeal to the Federal Circuit. On February 3, 2015, Inphi filed an appellant’s brief in its appeal to the Federal Circuit. The Company filed its appellee’s brief on May 18, 2015, and Inphi filed a reply brief on June 4, 2015. On October 9, 2015, the Federal Circuit conducted a hearing on Inphi’s appeal. On November 13, 2015, a panel of the Federal Circuit unanimously ruled in favor of Netlist in a precedential decision. Inphi petitioned for

panel rehearing and en banc rehearing on December 14, 2015. Both petitions were denied on January 22, 2016. Inphi has not pursued any further appeals in this matter.

#### *'274 Patent Reexamination*

As noted above, in April 2010, Inphi requested and was later denied an *Inter Partes* Reexamination of the '274 patent by the USPTO. In June 2010, Inphi submitted a new request and was later granted an *Inter Partes* Reexamination of the '274 patent by the USPTO. In September 2011, the USPTO issued a Non-Final Action, confirming the patentability of six claims. The Company has responded by amending or canceling some of the claims, adding new claims, and making arguments as to the validity of the rejected claims. Inphi filed its comments on the Company's response in November 2011. The USPTO issued an ACP in March 2012, which confirmed the patentability of one hundred and four (104) claims in view of all the previously submitted comments by both Inphi and the Company. The USPTO subsequently issued a RAN in June 2012. This RAN triggered Inphi's right as the losing party to file a notice of appeal and corresponding appeal brief, which Inphi filed when due. The Company responded to Inphi's appeal brief by filing a reply brief in October 2012. The examiner responded to Inphi's appeal brief and the reply brief by Examiner's Answer on April 16, 2013, in which he maintained his position confirming the one hundred and four (104) claims. Inphi filed a rebuttal brief on May 16, 2013. Netlist filed a request for oral hearing on June 14, 2013. The Company and the USPTO examiner jointly defended the '274 patent in a hearing on November 20, 2013 before the PTAB, in accordance with established procedures for *Inter Partes* Reexamination. On January 16, 2014, the PTAB issued a decision affirming the examiner in part, but reversing the examiner on new grounds and rejecting the one hundred and four (104) claims. On March 28, 2014, Netlist filed a Patent Owner's Response Requesting to Reopen Prosecution along with certain claim amendments and arguments. On June 26, 2014, the PTAB issued a decision granting-in-part Inphi's request to modify the January 16, 2014, decision as to two of the rejected claims. On June 15, 2015, the USPTO issued an Examiner's Determination, rejecting the amended claims. On July 8, 2015, the USPTO vacated sua sponte the June 15 Examiner's Determination. On September 11, 2015, the examiner issued a new Examiner's Determination which rejected the amended claims based on multiple grounds. On October 13, 2015, the Company filed a response to the Examiner's Determination. The reexamination of the '274 patent remains pending and will continue in accordance with established procedures for *Inter Partes* Reexamination.

#### *SK hynix Litigation*

On September 1, 2016, Netlist filed legal proceedings for patent infringement against SK hynix Inc., a South Korean memory semiconductor supplier ("SK hynix"), in the U.S. International Trade Commission ("ITC") and the U.S. District Court for the Central District of California ("CDCA"). The proceedings were based on the alleged infringement by SK hynix registered dual in-line memory module ("RDIMM") and LRDIMM enterprise memory products of the following six Netlist patents: United States Patent Nos. 8,756,364, 8,516,185, 8,001,434, 8,359,501, 8,689,064, and 8,489,837. In the ITC proceedings, the Company is seeking an exclusion order that directs U.S. Customs and Border Protection to stop allegedly infringing SK hynix RDIMM and LRDIMM products from entering the United States. In the CDCA proceedings, the Company is primarily seeking damages.

On October 3, 2016, the ITC instituted an investigation of the unfair trade practices of SK hynix related to its importation, sale for importation, and/or sale after importation of RDIMM and LRDIMM enterprise memory products. The ITC will determine over the course of the investigation whether these SK hynix products should be banned from importation into the United States by reason of infringement of the six Netlist patents. The ITC investigation will proceed against SK hynix and its wholly owned subsidiaries SK hynix America Inc. and SK hynix memory solutions Inc. ITC investigations proceed on an expedited basis. On November 14, 2016, the ITC set trial for the week of May 8, 2017, with a final initial determination to be issued no later than October 10, 2017, and the target date for a final determination no later than February 7, 2018.

On October 5, 2016, SK hynix filed a motion in the CDCA to disqualify Netlist's litigation counsel. SK hynix later filed a similar motion in the ITC on October 28, 2016. Netlist has opposed both motions.

*Other Legal Matters*

On March 31, 2016, Morgan Joseph Triartisan LLC (“Morgan Joseph”) filed a complaint in the Supreme Court of the State of New York against Netlist and certain of its officers for breach of contract and related causes of action. The complaint alleges that Netlist refused to honor its payment obligations under a written agreement with Morgan Joseph related to the provision of financial advisory and investment banking services. Morgan Joseph is seeking compensatory damages in the amount of \$1,012,500, plus punitive damages in an amount not less than \$1 million, together with pre-judgment interest, costs, and fees. Netlist believes that the claims are without merit and unsupported by the facts or law and will respond in due course in accordance with established procedures.

*Other Contingent Obligations*

During the normal course of its business, the Company has made certain indemnities, commitments and guarantees pursuant to which it may be required to make payments in relation to certain transactions. These include: (i) intellectual property indemnities to the Company’s customers and licensees in connection with the use, sales and/or license of Company products; (ii) indemnities to vendors and service providers pertaining to claims based on the Company’s negligence or willful misconduct; (iii) indemnities involving the accuracy of representations and warranties in certain contracts; (iv) indemnities to directors and officers of the Company to the maximum extent permitted under the laws of the State of Delaware; (v) indemnities to SVIC and SVB pertaining to all obligations, demands, claims, and liabilities claimed or asserted by any other party in connection with transactions contemplated by the applicable loan documents; and (vi) indemnities or other claims related to certain real estate leases, under which the Company may be required to indemnify property owners for environmental and other liabilities or may face other claims arising from the Company’s use of the applicable premises. The duration of these indemnities, commitments and guarantees varies and, in certain cases, may be indefinite. The majority of these indemnities, commitments and guarantees do not provide for any limitation of the maximum potential for future payments the Company could be obligated to make. Historically, the Company has not been obligated to make significant payments for these obligations, and no liabilities have been recorded for these indemnities, commitments and guarantees in the accompanying condensed consolidated balance sheets.

**Note 8—Stockholders’ Equity**

**Serial Preferred Stock**

The Company’s authorized capital stock includes 10,000,000 shares of serial preferred stock, with a par value of \$0.001 per share. No shares of preferred stock were outstanding at October 1, 2016 or January 2, 2016.

**Common Stock**

On September 23, 2016, the Company completed the 2016 Offering, pursuant to which it sold 9,200,000 shares of its common stock at a price to the public of \$1.25 per share. The net proceeds to the Company from the 2016 Offering were approximately \$10.3 million, after deducting underwriting discounts and commissions and offering expenses paid or payable by the Company.

**Stock-Based Compensation**

The Company has stock-based compensation awards outstanding pursuant to the Amended and Restated 2000 Equity Incentive Plan (the “2000 Plan”) and the Amended and Restated 2006 Equity Incentive Plan, as re-approved by the Company’s stockholders on June 8, 2016 (the “Amended 2006 Plan”), under which a variety of stock-based awards, including stock options, may be granted to employees and non-employee service providers of the Company. Further grants under the 2000 Plan were suspended upon the adoption of the 2006 Plan. In addition to awards made pursuant to the Amended 2006 Plan, the Company periodically issues inducement awards granted outside the Amended 2006 Plan to certain new hires.

[Table of Contents](#)

Subject to certain adjustments, as of October 1, 2016, the Company was authorized to issue a maximum of 10,205,566 shares of common stock pursuant to awards under the Amended 2006 Plan. Pursuant to the terms of the Amended 2006 Plan, the maximum number of shares of common stock subject to the plan automatically increased on the first day of each calendar year from January 1, 2007 through January 1, 2016, by the lesser of (i) 5.0% of the number of shares of common stock issued and outstanding as of the first day of the applicable calendar year, and (ii) 1,200,000 shares of common stock, subject to adjustment for certain corporate actions. Beginning January 1, 2017, the annual increase to the number of shares of common stock that may be issued pursuant to the Amended 2006 Plan is equal to the lesser of (i) 2.5% of the number of shares of common stock issued and outstanding as of the first day of the applicable calendar year, and (ii) 1,200,000 shares of common stock. At October 1, 2016, the Company had 167,189 shares of common stock available for issuance pursuant to future awards to be granted under the Amended 2006 Plan. Stock options granted under the 2000 Plan and the Amended 2006 Plan generally vest at a rate of at least 25% per year over four years and expire 10 years from the date of grant.

A summary of the Company's common stock option activity for the nine months ended October 1, 2016 is presented below (shares in thousands):

	<b>Options Outstanding</b>	
	<b>Number of Shares</b>	<b>Weighted-Average Exercise Price</b>
Options outstanding at January 2, 2016	8,944	\$ 1.98
Options granted	1,505	1.10
Options exercised	(259)	0.72
Options expired/forfeited	(1,227)	5.21
Options outstanding at October 1, 2016	8,963	\$ 1.45

The intrinsic value of stock options exercised in the nine months ended October 1, 2016 was \$221,098.

The following table presents the assumptions used to calculate the weighted-average grant date fair value of stock options granted by the Company during the periods presented:

	<b>Nine months ended</b>	
	<b>October 1, 2016</b>	<b>September 26, 2015</b>
Expected term (in years)	6.1	6.1
Expected volatility	106 %	113 %
Risk-free interest rate	1.48 %	1.52 %
Expected dividends	-	-
Weighted-average grant date fair value per share	\$ 0.89	\$ 0.90

At October 1, 2016, the amount of unearned stock-based compensation estimated to be expensed from the Company's 2016 fiscal year through the Company's 2019 fiscal year related to unvested stock options is approximately \$2.6 million, net of estimated forfeitures. The weighted-average period over which the unearned stock-based compensation is expected to be recognized is approximately 2.6 years. If there are any modifications or cancellations of the underlying unvested awards, the Company may be required to accelerate, increase or cancel any remaining unearned stock-based compensation expense or calculate and record additional expense. Future stock-based compensation expense and unearned stock-based compensation expense will increase to the extent the Company grants additional stock options or other stock-based awards.

**Warrants**

On April 4, 2016, a warrant holder exercised a warrant to acquire 1,000,000 shares of common stock in full on a cashless basis, pursuant to which the 1,000,000 shares were exercised in exchange for the Company's issuance of an aggregate of 674,300 shares of common stock.

On August 29, 2016, a warrant holder exercised a warrant to acquire 648,351 shares of common stock on a cashless basis, pursuant to which the 648,351 shares were exercised in exchange for the Company's issuance of an aggregate of 465,555 shares of common stock.

The following is a summary of the Company's warrant activity:

	<b>Number of Shares (in thousands)</b>	<b>Weighted Average Exercise Price</b>
Warrants outstanding - January 2, 2016	7,633	\$ 0.59
Warrant granted	-	-
Warrants exercised	(1,648)	0.47
Warrants outstanding - October 1, 2016	<u>5,985</u>	<u>\$ 0.61</u>

**Note 9—Segment and Geographic Information**

The Company operates in one reportable segment, which is the design and manufacture of high-performance memory subsystems for the server, high-performance computing and communications markets. The Company evaluates financial performance on a Company-wide basis.

At October 1, 2016 and January 2, 2016, approximately \$50,000 and \$100,000, respectively, of the Company's long-lived assets, net of depreciation and amortization, were located in the PRC. Substantially all other long-lived assets were located in the United States.

**Note 10—Subsequent Events**

The Company has evaluated subsequent events through the filing date of this Quarterly Report on Form 10-Q, and has determined that no subsequent events have occurred that would require recognition in the accompanying condensed consolidated financial statements or disclosure in the notes thereto, other than as discussed in these notes.

## Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our unaudited condensed consolidated financial statements and the related notes thereto contained in Part I, Item 1 of this report. The information contained in this report is not a complete description of our business or the risks associated with an investment in our common stock. We urge you to carefully review and consider the various disclosures made by us in this report and in our other reports filed with the Securities and Exchange Commission ("SEC"), including our Annual Report on Form 10-K for the fiscal year ended January 2, 2016 and subsequent reports on Form 10-Q and Form 8-K, which discuss our business in greater detail. In preparing this discussion and analysis, we presume that readers have access to and have read the Management's Discussion and Analysis of Financial Condition and Results of Operations contained in our Annual Report on Form 10-K for the fiscal year ended January 2, 2016, pursuant to Instruction 2 to paragraph (b) of Item 303 of Regulation S-K promulgated by the SEC.

Unless the context indicates otherwise, all references to "Netlist," the "Company," "we," "us," or "our" in this discussion and analysis and elsewhere in this report refer to Netlist, Inc., together with its majority and wholly owned subsidiaries.

### **Cautionary Note Regarding Forward-Looking Statements**

*This discussion and analysis and other sections of this report contain forward-looking statements covered by the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are statements other than historical facts and often address future events and our future performance. Words such as "anticipate," "estimate," "expect," "project," "intend," "may," "plan," "predict," "believe," "should" and similar words or expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements include, among other things, statements about our plans relating to our intellectual property, including our strategy for monetizing, expanding, licensing and defending our patent portfolio; our expectations with respect to strategic partners, including our relationship with Samsung and potential new commercial licensing agreements; our expectations regarding our liquidity and capital resources, including cash flow, sufficiency of cash resources, efforts to reduce expenses and potential future financings; our beliefs regarding the market and demand for our products; and any other statements, other than statements of historical facts, regarding our strategy, future operations, financial position, future revenues, projected costs, prospects, plans and objectives of management. All forward-looking statements reflect management's present expectations regarding future events and are subject to known and unknown risks, uncertainties and assumptions that could cause actual results to differ materially from those described in any forward-looking statements. These risks and uncertainties include, among others, changes in and uncertainty of customer acceptance of and demand for our existing products and technologies and our products and technologies under development; risks associated with the concentration of product sales among a limited number of customers; the success of product, licensing and joint development partnerships; continuing development, qualification and volume production of HybriDIMM™, EXPRESSvault® and NVvault®; the timing and magnitude of any continued decrease in our sales; our ability to leverage our NVvault and EXPRESSvault technology into a more diverse customer base; our need to raise additional capital and our ability to obtain financing as and when necessary; the rapidly changing nature of technology in our industry; risks associated with intellectual property, including patent infringement litigation against us as well as the costs and unpredictability of litigation over infringement of our intellectual property and the possibility of our patents being reexamined or reviewed by the U.S. Patent and Trademark Office ("USPTO") and Patent Trial and Appeal Board ("PTAB"); volatility in the pricing of components of our products; uncertainty of and/or delays in product orders and product qualifications; delays in our and our customers' product releases and development; introductions of new products by competitors; changes in end-user demand for technology solutions; our ability to attract and retain skilled personnel; our reliance on suppliers of critical components and vendors in the supply chain; fluctuations in the market price of critical components; evolving industry standards; the political and regulatory environment in the People's Republic of China ("PRC"); and general economic and market conditions. Other risks and uncertainties are described under the heading "Risk Factors" in Part II, Item 1A of this report, and similar discussions in our other SEC filings. Given these risks, uncertainties and other important factors, you should not place undue reliance on these forward-looking statements. These forward-*

*looking statements represent our estimates and assumptions only as of the date made. Except as required by law, we undertake no obligation to revise or update any forward-looking statements for any reason.*

## **Overview**

We are a leading provider of high-performance modular memory subsystems serving customers in diverse industries that require superior memory performance to empower critical business decisions. We have a long history of being first-to-market with disruptive new products, such as one of the first load reduced dual in-line memory modules ("LRDIMM") based on our distributed buffer architecture, which has been adopted by the industry for DDR4 LRDIMM. We were also one of the first to bring NAND flash memory ("NAND flash") to the memory channel with our NVvault non-volatile dual in-line memory modules ("NVDIMM") using software-intensive controllers and merging dynamic random access memory integrated circuits ("DRAM ICs" or "DRAM") and flash to solve data bottleneck and data retention challenges encountered in high-performance computing environments. We recently introduced a new generation of storage class memory products called HybriDIMM to address the growing need for real-time analytics in Big Data applications and in-memory databases.

Due to the ground-breaking product development of our engineering teams, we have built a robust portfolio of over 100 issued and pending U.S. and foreign patents, many seminal, in the areas of hybrid memory, storage class memory, rank multiplication and load reduction. Since our inception in 2000, we have dedicated substantial resources to the development of technology innovations essential to our business. Our early pioneering work in these areas has been broadly adopted in industry standard LRDIMM and in NVDIMM. Our objective is to continue to innovate in our field and invest further in our intellectual property portfolio, with the goal of monetizing our intellectual property through a combination of product sales, licensing and royalty agreements, and other revenue opportunities.

## **Key Business Metrics**

The following describes certain line items in our condensed consolidated statements of operations that are important to management's assessment of our financial performance:

### *Net Product Sales*

Net product sales consist primarily of sales of our high performance memory subsystems, net of a provision for estimated returns under our right of return policies, which generally range up to 30 days. We generally do not have long-term sales agreements with our customers. Although OEM customers typically provide us with non-binding forecasts of future product demand over specific periods of time, they generally place orders with us approximately two weeks in advance of scheduled delivery. Selling prices are typically negotiated monthly, based on competitive market conditions and the current price of DRAM ICs and NAND flash. Purchase orders generally have no cancellation or rescheduling penalty provisions. We often ship our products to our customers' international manufacturing sites. All of our sales to date, however, are denominated in U.S. dollars. We also sell excess component inventory of DRAM ICs and NAND flash to distributors and other users of memory integrated circuits. Component inventory sales are a relatively small percentage of net sales as a result of our efforts to diversify both our customer and product line bases. This diversification effort has also allowed us to use components in a wider range of memory subsystems. We expect that component inventory sales will continue to represent a minimal portion of our net sales in future periods.

### *Engineering Services*

Pursuant to the terms of our JDLA with Samsung, described below, we provided certain engineering services for Samsung and received a non-recurring engineering fee as compensation for these services. These fees from Samsung are the only such fees for engineering services that we have received to date, although we may in the future receive additional fees of this type, from Samsung or other customers, depending on the terms of the relationships we may develop.

### *Cost of Sales*

Our cost of sales includes the cost of materials, labor and other manufacturing costs, depreciation and amortization of equipment, inventory valuation provisions, stock-based compensation, occupancy costs and other

allocated fixed costs. The DRAM ICs and NAND flash incorporated into our products constitute a significant portion of our cost of sales, and thus our cost of sales will fluctuate based on the cost of DRAM ICs and NAND flash. We attempt to pass through such DRAM IC and NAND flash cost fluctuations to our customers by frequently renegotiating pricing prior to the placement of their purchase orders. However, the sales prices of our memory subsystems can also fluctuate due to competitive situations unrelated to the cost of DRAM ICs and NAND flash, which affects gross margins. In addition, we have experienced shortages of DRAM and NAND flash required for our HyperCloud® and NVvault products from time to time, which can cause disruptions in our revenues and gross profits. In addition, the gross margin on our sales of any excess component DRAM IC and NAND flash inventory is much lower than the gross margin on our sales of our memory subsystems. As a result, fluctuations in DRAM IC and NAND flash inventory sales as a percentage of our overall sales could impact our overall gross margin. We assess the valuation of our inventories on a quarterly basis and record a provision to cost of sales as necessary to reduce inventories to the lower of cost or net realizable value.

#### *Research and Development*

Research and development expenses consist primarily of employee and independent contractor compensation and related costs, stock-based compensation, non-recurring engineering (“NRE”) fees, computer-aided design software licenses, reference design development costs, depreciation or rental of evaluation equipment, and occupancy and other allocated overhead costs. Also included in research and development expense are the costs of material and overhead related to the production of engineering samples of new products under development or products used solely in the research and development process. Our customers typically do not separately compensate us for design and engineering work involved in developing application-specific products for them. All research and development costs are expensed as incurred. We anticipate that research and development expenditures will increase in future periods as we seek to expand new product opportunities, increase our activities related to new and emerging markets and continue to develop additional proprietary technologies.

#### *Intellectual Property Legal Fees*

Intellectual property legal fees consist of legal fees incurred for patent filings, protection and enforcement. We anticipate that intellectual property legal fees will increase in future periods as we seek to continue to protect our patent portfolio.

#### *Selling, General and Administrative*

Selling, general and administrative expenses primarily consist of employee compensation and related costs, stock-based compensation, independent sales representative commissions, professional services, promotional and other selling and marketing expenses, and occupancy and other allocated overhead costs. A significant portion of our selling effort is directed at building relationships with OEMs and other customers and working through the product approval and qualification process with them. Therefore, the cost of material and overhead related to products manufactured for qualification is included in selling expenses.

#### *Provision for Income Taxes*

The federal statutory tax rate was 34% for the period ended October 1, 2016 and September 26, 2015. Our effective tax rate differs from the statutory rate because we provide a full valuation allowance against net deferred tax assets, and accordingly we did not recognize an income tax benefit related to losses incurred.

### **Factors Affecting Our Performance**

#### ***Trends in Product Sales***

For the nine months ended October 1, 2016 and September 26, 2015, our NVvault NVDIMM used in cache-protection and data logging applications, including our NVvault battery-free, the flash-based cache system, accounted for approximately 1% and 28% of total net product sales, respectively. We have experienced a steady decline in NVvault sales in recent years, due in large part to our loss of our former most significant NVvault customer, Dell,

beginning in 2012. There were no sales of NVvault products to Dell in the nine months ended October 1, 2016 or September 26, 2015. In order to leverage our NVvault technology and diversify our customer base, and to secure one or more new key customers, we continue to pursue additional qualifications of NVvault with other OEMs and to target new customer applications such as online transaction processing, virtualization, Big Data analytics, high speed transaction processing, high-performance database and in-memory database applications. We also introduced EXPRESSvault in March 2011 and the next generation of EXPRESSvault (EV3) in July 2015 and we continue to pursue qualification of the next generation DDR4 NVvault with customers. Our future operating results will depend on our ability to commercialize these NVvault product extensions, as well as other products such as HybriDIMM and other high-density and high-performance solutions. If we are not successful in expanding our qualifications or marketing any new or enhanced products, we will be unable to secure revenues sufficient to replace lost NVvault revenue and our results of operations and prospects could be materially harmed.

### ***Customer Base and Concentrations***

During the nine months ended October 1, 2016 and September 26, 2015, we primarily marketed and sold our products to OEMs in the server and storage markets. Two customers represented approximately 29% and 10% of our net product sales in the nine months ended October 1, 2016, the largest of which was a new customer in 2016, and two customers represented approximately 25% and 10% of our net product sales in the nine months ended September 26, 2015, one of which has purchased few products and contributed only a small portion of our revenues during 2016 to date. Because our target markets are characterized by a limited number of large companies, we anticipate that sales of our products will continue to be concentrated among a limited number of large customers in the foreseeable future. Additionally, the composition of major customers and their respective contributions to our net product sales have varied and will likely continue to vary from period to period as OEMs progress through the life cycle of the products they produce and sell. We do not have long-term agreements with any of our customers and, as such, any or all of them could decide at any time to discontinue, decrease or delay their purchase of our products. In addition, the prices that these customers pay for our products could change at any time. Further, we may not be able to sell some products developed for one customer to a different customer because our products are often designed to address specific customer requirements, and even if we are able to sell these products to another customer, our margin on such products may be reduced. Additionally, while we may not be contractually obligated to accept returned products, we may determine that it is in our best interest to accept returns from certain large or key customers in order to maintain good relations with them, and such additional returns could negatively impact our operating results. Moreover, because a few customers account for a substantial portion of our net product sales, the failure of any one of these customers to pay on a timely basis would negatively impact our cash flow. As a result, the loss of any of our customers, or a significant reduction in sales to or difficulties in collecting payment from any of them, could significantly reduce our net product sales and adversely affect our operating results.

### ***Intellectual Property Protection and Enforcement***

We dedicate substantial resources to protecting our intellectual property. For example, on September 1, 2016, we took action to safeguard our innovations by filing legal proceedings for patent infringement against SK hynix Inc., a South Korean memory semiconductor supplier ("SK hynix"), and two of its subsidiaries in the U.S. International Trade Commission ("ITC") and the U.S. District Court for the Central District of California. We expect to continue this type of activity for the foreseeable future, without any guarantee that any ongoing or future patent protection and litigation activities will be successful. We are also subject to litigation based on claims that we have infringed on the intellectual property of others, against which we intend to defend ourselves vigorously. Litigation, whether or not eventually decided in our favor or settled, is costly and time-consuming and could divert management's attention and resources. Thus, because of the nature and inherent uncertainties of litigation, even if the outcome of any of such actions is favorable, our business, financial condition, results of operations or cash flows could be materially and adversely affected.

### ***New Product Launches***

We have invested a significant portion of our research and development budget into the design of application-specific integrated circuit ("ASIC") and field-programmable gate array ("FPGA") devices, including the HyperCloud and HybriDIMM memory subsystems, and the NVvault family of products. Our intent is to capitalize on our early lead

in the storage class memory market by commercializing these products and pursuing production orders from our customers, as well as leveraging our partnership with Samsung Electronics Co., Ltd. (“Samsung”), which we established with our Joint Development and License Agreement (“JDLA”) entered into in November 2015, to penetrate new customer accounts. However, these products are subject to increased risks as compared to our legacy products, and we may be unable to achieve customer or market acceptance of these or any other existing or future products or achieve such acceptance in a timely manner. Further, we experienced a longer qualification cycle than anticipated with our HyperCloud memory subsystems, as well as supply chain disruption and a shortage of DRAM and flash required to create the HyperCloud memory subsystem and our NVvault products. These and other risks attendant to the production of our currently available and potential future products could reduce our achievable revenues from these products and prevent us from recouping our investments in the products.

### ***Monetizing Our Intellectual Property Portfolio***

We have dedicated substantial resources to developing a robust intellectual property portfolio and we intend to continue investing in this portfolio, with the goal of further establishing ourselves as an innovator in the high-performance memory subsystem market and identifying emerging customer requirements for future generations of products. We also intend to aggressively pursue monetization avenues for our intellectual property portfolio, potentially including licensing and/or royalty agreements. However, our revenues are currently generated by our product sales and NRE fees and we may never be successful in generating a revenue stream from our intellectual property, in which case our investments of time, capital and other resources into our intellectual property portfolio may not provide adequate, or any, returns. Although we may pursue agreements with third parties to commercially license certain of our products or technologies, we may never successfully enter into any such agreement. Further, the terms of any such agreements that we may reach with third-party licensees are uncertain and may not provide sufficient royalty or other licensing revenues to us to justify our costs of developing and maintaining the licensed intellectual property or may otherwise include terms that are not favorable to us. Additionally, the pursuit of licensing arrangements would require by its nature that we relinquish certain of our rights to our technologies and intellectual property that we license to third parties, which could limit our ability to base our own products on such technologies or could reduce the economic value that we receive from such technologies and intellectual property. If we are not successful in monetizing our intellectual property portfolio, we may never recoup the costs associated with developing, maintaining, defending and enforcing this portfolio and our financial condition would be harmed.

### ***PRC Operations***

Our operations in the PRC are subject to various political, geographical and economic risks and uncertainties inherent to conducting business in the PRC. These include, among others, (i) potential changes in economic conditions in the region, (ii) managing a local workforce and overcoming other practical barriers, such as language and cultural differences, that may subject us to uncertainties or unfamiliar practices or regulatory policies, (iii) changes in the policies of the Chinese governmental and regulatory agencies, and (iv) changes in the laws and policies of the U.S. government regarding the conduct of business in foreign countries generally or in the PRC in particular. Additionally, the Chinese government controls the procedures by which its local currency, the Chinese Renminbi (“RMB”), is converted into other currencies and by which dividends may be declared or capital distributed for the purpose of repatriation of earnings and investments. If restrictions in the conversion of RMB or in the repatriation of earnings and investments through dividend and capital distribution restrictions are instituted, our operations and results may be negatively impacted. In addition, fluctuations in the exchange rate between RMB and U.S. dollars may adversely affect our expenses and results of operations, the value of our assets and liabilities and the comparability of our period-to-period results.

### **Business Risks and Uncertainties**

Our business, financial condition and prospects are exposed to numerous risks and uncertainties. For more information, see the discussion under “Risk Factors” in Part II, Item 1A of this report.

## **Critical Accounting Policies**

The preparation of our condensed consolidated financial statements in conformity with accounting principles generally accepted in the United States requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the condensed consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. By their nature, these estimates and assumptions are subject to an inherent degree of uncertainty. We base our estimates on our historical experience, knowledge of current conditions and our beliefs of what could occur in the future considering available information. We review our estimates on an on-going basis. Actual results may differ from these estimates, which may result in material adverse effects on our operating results and financial position. We believe the following critical accounting policies involve our more significant assumptions and estimates used in the preparation of our condensed consolidated financial statements:

### *Revenue Recognition.*

#### *Net Product Sales*

Net product sales primarily consist of sales of high-performance modular memory subsystems to OEMs, hyperscale data center operators and storage vendors.

We recognize revenues in accordance with Financial Accounting Standards Board (“FASB”) Accounting Standards Codification (“ASC”) Topic 605. Accordingly, we recognize revenues when there is persuasive evidence that an arrangement exists, product delivery and acceptance have occurred, the sales price is fixed or determinable, and collectability of the resulting receivable is reasonably assured.

We generally use customer purchase orders and/or contracts as evidence of an arrangement. Delivery occurs when goods are shipped for customers with shipping point terms and upon receipt for customers with destination terms, at which time title and risk of loss transfer to the customer. Shipping documents are used to verify delivery and customer acceptance. We assess whether the sales price is fixed or determinable based on the payment terms associated with the transaction and whether the sales price is subject to refund. Customers are generally allowed limited rights of return for up to 30 days, except for sales of excess component inventories, which contain no right-of-return privileges. Estimated returns are provided for at the time of sale based on historical experience or specific identification of an event necessitating a reserve. We offer a standard product warranty to our customers and have no other post-shipment obligations. We assess collectability based on the creditworthiness of the customer as determined by credit checks and evaluations, as well as the customer’s payment history.

All amounts billed to customers related to shipping and handling are classified as net product sales, while all costs incurred by us for shipping and handling are classified as cost of sales.

### *Engineering Services*

We provide engineering services to our customers. We recognize revenue from these services when all of the following conditions are met: (1) evidence existed of an arrangement with the customer, typically consisting of a purchase order or contract; (2) our services were performed and risk of loss passed to the customer; (3) we completed all of the necessary terms of the contract; (4) the amount of revenue to which we were entitled was fixed or determinable; and (5) we believed it was probable that we would be able to collect the amount due from the customer. To the extent that one or more of these conditions has not been satisfied, we defer recognition of revenue.

Generally, we recognize revenue as the engineering services stipulated under the contract are completed and accepted by our customers. Engineering services are performed under a signed Statement of Work (“SOW”) with a customer. The deliverables and payment terms stipulated under the SOW provide guidance on the project revenue recognition.

Revenues from contracts with substantive defined milestones that we have determined are reasonable, relevant to all the deliverables and payment terms in the SOW that are commensurate with the efforts required to achieve the milestones are recognized under the milestone recognition method.

Estimated losses on all SOW projects are recognized in full as soon as they become evident.

#### *Fair Value of Financial Instruments*

Our financial instruments consist principally of cash and cash equivalents, restricted cash, accounts receivable, accounts payable, accrued expenses and debt instruments. The fair value of our cash equivalents is determined based on quoted prices in active markets for identical assets or Level 1 inputs. We recognize transfers between Levels 1 through 3 of the fair value hierarchy at the beginning of the reporting period. We believe that the carrying values of all other financial instruments approximate their current fair values due to their nature and respective durations.

#### *Allowance for Doubtful Accounts*

We evaluate the collectability of accounts receivable based on a combination of factors. In cases where we are aware of circumstances that may impair a specific customer's ability to meet its financial obligations subsequent to the original sale, we will record an allowance against amounts due, and thereby reduce the net recognized receivable to the amount that we reasonably believe will be collected. For all other customers, we record allowances for doubtful accounts based primarily on the length of time the receivables are past due based on the terms of the originating transaction, the current business environment and our historical experience. Uncollectible accounts are charged against the allowance for doubtful accounts when all cost effective commercial means of collection have been exhausted. Generally, our credit losses have been within our expectations and the provisions established. However, we cannot guarantee that we will continue to experience credit loss rates similar to those we have experienced in the past.

Our accounts receivable are highly concentrated among a small number of customers, and a significant change in the liquidity or financial position of one of these customers could have a material adverse effect on the collectability of our accounts receivable, our liquidity and our future operating results.

#### *Inventories*

We value our inventories at the lower of the actual cost to purchase or manufacture the inventory or the net realizable value of the inventory. Cost is determined on an average cost basis, which approximates actual cost on a first-in, first-out basis and includes raw materials, labor and manufacturing overhead. At each balance sheet date, we evaluate ending inventory quantities on hand and on order and record a provision for excess quantities and obsolescence. Among other factors, we consider historical demand and forecasted demand in relation to the inventory on hand, competitiveness of product offerings, market conditions and product life cycles when determining obsolescence and net realizable value. In addition, we consider changes in the market value of components in determining the net realizable value of our inventory. Once established, lower of cost or market write-downs are considered permanent adjustments to the cost basis of our excess or obsolete inventories.

A significant decrease in demand for our products could result in an increase in the amount of excess inventory quantities on hand. In addition, our estimates of future product demand may prove to be inaccurate, in which case we may have understated or overstated the provision required for excess and obsolete inventory. In the future, if our inventories are determined to be overvalued, we would be required to recognize additional expense in our cost of sales at the time of such determination. Likewise, if our inventories are determined to be undervalued, we may have over-reported our costs of sales in previous periods and would be required to recognize additional gross profit at the time such inventories are sold. In addition, should the market value of DRAM ICs or NAND flash decrease significantly, we may be required to lower our selling prices to reflect the lower cost of our raw materials. If such price decreases reduce the net realizable value of our inventories to less than our cost, we would be required to recognize additional expense in our cost of sales in the same period. Although we make every reasonable effort to ensure the accuracy of our forecasts of future product demand, any significant unanticipated changes in demand, technological developments or the market

value of DRAM ICs or NAND flash could have a material effect on the value of our inventories and our reported operating results.

#### *Impairment of Long-Lived Assets*

We evaluate the recoverability of the carrying value of long-lived assets held and used in our operations for impairment on at least an annual basis or whenever events or changes in circumstances indicate that their carrying value may not be recoverable. When such factors and circumstances exist, we compare the projected undiscounted future net cash flows associated with the related asset or group of assets over their estimated useful lives against their respective carrying amount. These projected future cash flows may vary significantly over time as a result of increased competition, changes in technology, fluctuations in demand, consolidation of our customers and reductions in average selling prices. If the carrying value is determined not to be recoverable from future operating cash flows, the asset is deemed impaired and an impairment loss is recognized to the extent the carrying value exceeds the estimated fair value of the asset. The fair value of the asset or asset group is based on market value when available, or when unavailable, on discounted expected cash flows. Our management believes there is no impairment of long-lived assets as of October 1, 2016. However, market conditions could change or demand for our products could decrease, which could result in future impairment of long-lived assets.

#### *Deferred Financing Costs, Debt Discount and Detachable Debt-Related Warrants*

Costs incurred to issue debt are deferred and recorded as a reduction to the debt balance in the accompanying condensed consolidated balance sheets. We amortize debt issuance costs over the expected term of the related debt using the effective interest method. Debt discounts relate to professional services rendered and to the relative fair value of any warrants issued in conjunction with the debt and are recorded as a reduction to the debt balance and accreted over the expected term of the debt to interest expense using the effective interest method.

#### *Warranty Liabilities*

We offer product warranties generally ranging from one to three years, depending on the product and negotiated terms of purchase agreements with our customers. Such warranties require us to repair or replace defective product returned to us during the warranty period at no cost to the customer. Warranties are not offered on sales of excess inventory. We record an estimate for warranty-related costs at the time of sale based on historical and estimated future product return rates and expected repair or replacement costs. While such costs have historically been consistent between periods and within our expectations and the provisions established, unexpected changes in failure rates could have a material adverse impact on us, requiring additional warranty reserves, and adversely affecting our gross profit and gross margins.

#### *Stock-Based Compensation*

We account for equity issuances to non-employees in accordance with FASB ASC Topic 505. All transactions in which goods or services are the consideration received for the issuance of equity instruments are accounted for based on the fair value of the consideration received or the fair value of the equity instrument issued, whichever is more reliably measurable. The measurement date used to determine the fair value of the equity instrument issued is the earlier of the date on which the third-party performance is complete or the date on which it is probable that performance will occur.

In accordance with FASB ASC Topic 718, employee and director stock-based compensation expense recognized during the period is based on the value of the portion of stock-based payment awards that is ultimately expected to vest during the period. Given that stock-based compensation expense recognized in the condensed consolidated statements of operations is based on awards ultimately expected to vest, it has been reduced for estimated forfeitures. FASB ASC Topic 718 requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Our estimated average forfeiture rates are based on historical forfeiture experience and estimated future forfeitures.

The estimated fair value of common stock option awards to employees and directors is calculated using the Black-Scholes option pricing model. The Black-Scholes model requires subjective assumptions regarding future stock price volatility and expected time to exercise, along with assumptions about the risk-free interest rate and expected dividends, all of which affect the estimated fair values of our common stock option awards. The expected term of options granted is calculated as the average of the weighted vesting period and the contractual expiration date of the option. This calculation is based on the safe harbor method permitted by the SEC in instances where the vesting and exercise terms of options granted meet certain conditions and where limited historical exercise data is available. The expected volatility is based on the historical volatility of our common stock. The risk-free rate selected to value any particular grant is based on the U.S. Treasury rate that corresponds to the expected term of the grant effective as of the date of the grant. The expected dividends assumption is based on our history and our expectations regarding dividend payouts. If factors change and we employ different assumptions, stock-based compensation expense may differ significantly from what we have recorded in prior periods. Compensation expense for common stock option awards with graded vesting schedules is recognized on a straight-line basis over the requisite service period for the last separately vesting portion of the award, provided that the accumulated cost recognized as of any date at least equals the value of the vested portion of the award.

We recognize the fair value of restricted stock awards issued to employees and outside directors as stock-based compensation expense on a straight-line basis over the vesting period for the last separately vesting portion of the awards. Fair value is determined as the difference between the closing price of our common stock on the grant date and the purchase price of the restricted stock award, if any, reduced by expected forfeitures.

If there are any modifications or cancellations of the underlying vested or unvested stock-based awards, we may be required to accelerate, increase or cancel any remaining unearned stock-based compensation expense, or record additional expense for vested stock-based awards. Future stock-based compensation expense and unearned stock-based compensation may increase to the extent that we grant additional common stock options or other stock-based awards.

#### *Income Taxes*

Deferred tax assets and liabilities are recognized to reflect the estimated future tax effects, calculated at currently effective tax rates, of future deductible or taxable amounts attributable to events that have been recognized on a cumulative basis in the condensed consolidated financial statements. A valuation allowance related to a net deferred tax asset is recorded when it is more likely than not that some portion of the deferred tax asset will not be realized.

FASB ASC Topic 740 prescribes a recognition threshold and measurement requirement for the financial statement recognition of a tax position that has been taken or is expected to be taken on a tax return and also provides guidance on de-recognition, classification, interest and penalties, accounting in interim periods, disclosure, and transition. Under ASC Topic 740 we may only recognize or continue to recognize tax positions that meet a “more likely than not” threshold.

The application of tax laws and regulations is subject to legal and factual interpretation, judgment and uncertainty. Tax laws and regulations may change as a result of changes in fiscal policy, changes in legislation, the evolution of regulations and court rulings. Therefore, the actual liability for U.S. or foreign taxes may be materially different from our estimates, which could require us to record additional tax liabilities or to reduce previously recorded tax liabilities, as applicable.

#### *Interest Expense*

Interest expense consists primarily of interest associated with our issued debt issued, including fees related to the term loans, accretion of debt discounts and amortization of debt issuance costs. We recognize the accretion of debt discounts and the amortization of interest costs using the effective interest method .

**Results of Operations*****Three and Nine Months ended October 1, 2016 Compared to Three and Nine Months ended September 26, 2015***

The following table sets forth certain condensed consolidated statements of operations data as a percentage of net revenues for the periods indicated:

	<b>Three Months Ended</b>		<b>Nine Months Ended</b>	
	<b>October 1, 2016</b>	<b>September 26, 2015</b>	<b>October 1, 2016</b>	<b>September 26, 2015</b>
Net product sales	100 %	100 %	51 %	100 %
NRE revenues	-	-	49	-
Total net revenues	100	100	100	100
Cost of sales	100	99	50	84
Gross profit	-	1	50	16
Operating expenses:				
Research and development	57	90	35	85
Intellectual property legal fees	16	56	16	129
Selling, general and administrative	93	106	48	101
Total operating expenses	165	251	99	315
Operating loss	(165)	(249)	(49)	(299)
Other expense, net:				
Interest expense, net	(6)	(28)	(3)	(27)
Other expense, net	1	(55)	-	13
Total other expense, net	(5)	(83)	(3)	(15)
Loss before provision for income tax	(170)	(332)	(52)	(314)
Provision for income taxes	-	-	-	-
Net loss	(170)%	(332)%	(52)%	(314)%

**Net Product Sales, NRE Revenues, Cost of Sales and Gross Profit**

The following tables present net product sales, NRE revenues, cost of sales and gross profit for the three and nine months ended October 1, 2016 as compared to the three and nine months ended September 26, 2015 (in thousands, except percentages):

	<b>Three Months Ended</b>		<b>Change</b>	<b>% Change</b>
	<b>October 1, 2016</b>	<b>September 26, 2015</b>		
Net product sales	\$ 2,589	\$ 1,617	\$ 972	60 %
NRE revenues	-	-	-	-
Total net revenues	2,589	1,617	972	60 %
Cost of sales	2,580	1,593	987	62 %
Gross profit	\$ 9	\$ 24	\$ (15)	(63)%
Gross margin	0.3%	1.5%	(1.1)%	

	<b>Nine Months Ended</b>		<b>Change</b>	<b>% Change</b>
	<b>October 1, 2016</b>	<b>September 26, 2015</b>		
Net product sales	\$ 7,260	\$ 5,160	\$ 2,100	41 %
NRE revenues	6,857	-	6,857	100 %
Total net revenues	14,117	5,160	8,957	174 %
Cost of sales	6,996	4,332	2,664	61 %
Gross profit	\$ 7,121	\$ 828	\$ 6,293	760 %
Gross margin	50.4%	16.0%	34.4 %	

*Net Product Sales.* The increase in net product sales for the three months ended October 1, 2016 as compared with the three months ended September 26, 2015 resulted primarily from an increase of \$1.2 million in sales of flash, partially offset by decreases of \$0.1 million in sales of our HyperCloud product and \$0.1 million in sales of our Planar-X product. The increase in our net product sales for the nine months ended October 1, 2016 as compared with the nine months ended September 26, 2015 resulted primarily from increases of \$3.2 million in sales of flash and \$0.5 million in sales of other small outline dual in-line memory module (“SODIMM”) and registered dual in-line memory module (“RDIMM”) products, partially offset by decreases of \$1.4 million in sales of our NVvault product and \$0.2 million in sales of our Planar-X product. Our largest customer during the 2015 periods, which accounted for 22% and 25% of net product sales during the three and nine months ended September 26, 2015, respectively, made significantly fewer purchases and contributed a significantly smaller amount of our net product sales during the comparable 2016 periods, while our largest customer during the 2016 periods, which accounted for 17% and 29% of net product sales during the three and nine months ended October 1, 2016, respectively, was a new customer in 2016 and made no purchases and contributed no net product sales during the comparable 2015 periods.

*NRE Revenues.* The increase in revenues from NRE fees for the nine months ended October 1, 2016 as compared with the nine months ended September 26, 2015 resulted from the NRE revenues recognized from our JDLA with Samsung entered into in November 2015.

*Gross Profit, Gross Margin and Cost of Sales.* The decrease in gross margin for the three months ended October 1, 2016 is primarily the result of a change between periods in the mix of our products sold, marked by reduced sales of our higher margin first generation NVvault product and increased sales of other lower margin products.

The increase in our gross margin in the nine months ended October 1, 2016 as compared with the nine months ended September 26, 2015 is primarily the result of our NRE revenues from the JDLA, partially offset by a decrease in gross margin from our net product sales as a result of a change between periods in the mix of our products sold, marked by reduced sales of our higher margin first generation NVvault product and increased sales of other lower margin products.

***Research and Development .***

The following tables present research and development expenses for the three and nine months ended October 1, 2016 and September 26, 2015 (in thousands, except percentages):

	<b>Three Months Ended</b>		<b>Change</b>	<b>% Change</b>
	<b>October 1, 2016</b>	<b>September 26, 2015</b>		
Research and development	\$ 1,463	\$ 1,449	\$ 14	1 %

	<b>Nine Months Ended</b>		<b>Change</b>	<b>% Change</b>
	<b>October 1, 2016</b>	<b>September 26, 2015</b>		
Research and development	\$ 4,940	\$ 4,369	\$ 571	13 %

The increase in research and development expenses in the three and nine months ended October 1, 2016 as compared with the three and nine months ended September 26, 2015 resulted primarily from an increase in engineering headcount and overhead expenses and the use of outside consultants for new product development.

***Intellectual Property Legal Fees.***

The following tables present intellectual property legal fees for the three and nine months ended October 1, 2016 and September 26, 2015 (in thousands, except percentages):

	<b>Three Months Ended</b>		<b>Change</b>	<b>% Change</b>
	<b>October 1, 2016</b>	<b>September 26, 2015</b>		
Intellectual property legal fees	\$ 409	\$ 899	\$ (490)	(55)%

	<b>Nine Months Ended</b>		<b>Change</b>	<b>% Change</b>
	<b>October 1, 2016</b>	<b>September 26, 2015</b>		
Intellectual property legal fees	\$ 2,255	\$ 6,679	\$ (4,424)	(66)%

The decrease in intellectual property legal fees during the three and nine months ended October 1, 2016 as compared with the three and nine months ended September 26, 2015 resulted from a decrease in legal fees incurred for trade secret litigation.

***Selling, General and Administrative .***

The following tables present selling, general and administrative expenses for the three and nine months ended October 1, 2016 and September 26, 2015 (in thousands, except percentages):

	<b>Three Months Ended</b>			
	<b>October 1, 2016</b>	<b>September 26, 2015</b>	<b>Change</b>	<b>% Change</b>
Selling, general and administrative	\$ 2,398	\$ 1,710	\$ 688	40 %

  

	<b>Nine Months Ended</b>			
	<b>October 1, 2016</b>	<b>September 26, 2015</b>	<b>Change</b>	<b>% Change</b>
Selling, general and administrative	\$ 6,822	\$ 5,213	\$ 1,609	31 %

Selling, general and administrative expense increased by \$0.7 million for the three months ended October 1, 2016 as compared with the three months ended September 26, 2015. This increase was primarily due to an increase of \$0.3 million in sales and marketing headcount costs and related overhead and travel expenses and \$0.4 million in outside services, primarily legal fees.

Selling, general and administrative expenses increased by \$1.6 million for the nine months ended October 1, 2016 as compared with the nine months ended September 26, 2015. This increase was primarily due to increases of \$1.2 million in sales and marketing headcount costs and related overhead and travel expenses, \$0.3 million in outside services, primarily legal fees, and \$0.1 million in advertising and product evaluation costs.

***Other Income (Expense).***

The following tables present other income (expense) for the three and nine months ended October 1, 2016 and September 26, 2015 (in thousands, except percentages):

	<b>Three Months Ended</b>			
	<b>October 1, 2016</b>	<b>September 26, 2015</b>	<b>Change</b>	<b>% Change</b>
Interest expense, net	\$ (159)	\$ (447)	\$ (288)	64 %
Other income (expense), net	19	(889)	(908)	102 %
Total other expense, net	<u>\$ (140)</u>	<u>\$ (1,336)</u>	<u>\$ (1,196)</u>	<u>(90)%</u>

  

	<b>Nine Months Ended</b>			
	<b>October 1, 2016</b>	<b>September 26, 2015</b>	<b>Change</b>	<b>% Change</b>
Interest expense, net	\$ (428)	\$ (1,416)	\$ (988)	(70)%
Other income (expense), net	17	667	650	(97)%
Total other expense, net	<u>\$ (411)</u>	<u>\$ (749)</u>	<u>\$ (338)</u>	<u>(45)%</u>

The decrease in interest expense, net, for the three and nine months ended October 1, 2016 as compared with the three and nine months ended September 26, 2015 is primarily due to the substantially lower interest rate (2%) on our

convertible debt from SVIC, which we issued in November 2015. Our higher interest rate (11%) loan from our former lender Fortress Credit Opportunities I LP (“Fortress”) was repaid in November 2015.

Other income (expense), net, for the three months ended September 26, 2015 primarily consisted of our payment of a bond associated with our legal proceedings against Diablo Technologies, which was not repeated in the three months ended October 1, 2016. Other income (expense), net, for the nine months ended September 26, 2015 also consisted of our receipt of insurance proceeds as compensation for damages to our facility in the PRC and our payment of \$0.9 million associated with our legal proceedings against Diablo Technologies, neither of which were repeated during the nine months ended October 1, 2016.

***Provision for Income Taxes .***

The following tables present the provision for income taxes for the three and nine months ended October 1, 2016 and September 26, 2015 (in thousands, except percentages):

	<b>Three Months Ended</b>		<b>Change</b>	<b>% Change</b>
	<b>October 1, 2016</b>	<b>September 26, 2015</b>		
Provision for income taxes	\$ -	\$ -	\$ -	-

	<b>Nine Months Ended</b>		<b>Change</b>	<b>% Change</b>
	<b>October 1, 2016</b>	<b>September 26, 2015</b>		
Provision for income taxes	\$ 1	\$ 1	\$ -	-

We did not record a benefit for income taxes for the three and nine months ended October 1, 2016 and September 26, 2015, as tax benefits resulting from operating losses generated were fully reserved.

**Liquidity and Capital Resources**

Liquidity refers to our ability to generate adequate amounts of cash to meet our cash needs. We require cash to fund our operating expenses and working capital requirements, to make required payments of principal and interest under our outstanding debt instruments and, to a lesser extent, to fund capital expenditures. We have historically financed our operations primarily through issuances of equity and debt securities and revenues generated from operations, including product sales and NRE revenues from our JDLA. We have also funded our operations with a revolving line of credit and term loans under a bank credit facility and equipment leasing arrangements.

***Working Capital and Cash and Cash Equivalents***

The following table presents working capital and cash and cash equivalents (in thousands) as of October 1, 2016 and January 2, 2016:

	<b>October 1, 2016</b>	<b>January 2, 2016</b>
Working capital	\$ 16,368	\$ 11,945
Cash and cash equivalents(1)	\$ 15,394	\$ 19,684

(1) Included in working capital.

Our working capital increased in the nine months ended October 1, 2016, primarily as a result of approximately

\$10.3 million in cash received from our issuance of common stock in the 2016 Offering, as discussed under “Capital Resources” below, partially offset by the use of cash and cash equivalents to fund operations.

**Cash Provided by (Used in) in the Nine Months Ended October 1, 2016 and September 26, 2015.**

The following table summarizes our cash flows for the periods indicated (in thousands):

	Nine Months Ended	
	October 1, 2016	September 26, 2015
<b>Net cash provided by (used in):</b>		
Operating activities	\$ (14,244)	\$ (9,510)
Investing activities	(317)	(138)
Financing activities	10,271	11,255
Net change in cash and cash equivalents	<u>\$ (4,290)</u>	<u>\$ 1,607</u>

*Operating Activities.* Net cash used in operating activities for the nine months ended October 1, 2016 was primarily the result of a net loss of approximately \$7.3 million and approximately \$8.4 million in net cash used in operating activities during the period due to changes in operating assets and liabilities, which were primarily from changes in deferred revenue, inventories, accounts payable and accrued expenses, restricted cash and accounts receivable, partially offset by approximately \$1.5 million in net non-cash operating expenses primarily consisting of stock-based compensation, depreciation and amortization and amortization of debt discounts. Net cash used in operating activities for the nine months ended September 26, 2015 was primarily the result of a net loss of approximately \$16.2 million, partially offset by (i) approximately \$4.2 million in net cash provided by operating activities during the period due to changes in operating assets and liabilities, which were primarily from changes in accounts payable and accrued expenses, accounts receivable and prepaid expenses and other assets, and (ii) approximately \$2.5 million in net non-cash operating expenses primarily consisting of stock-based compensation, amortization of debt discounts and depreciation and amortization.

Restricted cash increased by \$0.7 million during the nine months ended October 1, 2016 which is attributable to cash to secure an increase in our standby letter of credit with a vendor.

Accounts receivable increased by approximately \$0.4 million during the nine months ended October 1, 2016, which we attribute primarily to an increase in product sales.

Inventories increased by approximately \$1.3 million during the nine months ended October 1, 2016 primarily attributable to our purchase of additional inventory to support the increase in our product sales.

Accounts payable increased by approximately \$0.9 million during the nine months ended October 1, 2016, which is primarily attributable to increased purchases of inventory and legal fees incurred for trade secret litigation and patent litigation and other legal matters.

*Investing Activities.* Net cash used in investing activities for nine months ended October 1, 2016 and September 26, 2015 was primarily the result of our purchase of property and equipment during the periods.

*Financing Activities.* Net cash provided by financing activities for the nine months ended October 1, 2016 was primarily the result of the 2016 Offering, as discussed under “Capital Resources” below, pursuant to which we raised net proceeds of approximately \$10.3 million. Net cash provided by financing activities for the nine months ended September 26, 2015 was primarily the result of the 2015 Offering, as discussed under “Capital Resources” below, pursuant to which we raised net proceeds of approximately \$10.5 million, a term loan from our former lender Fortress of approximately \$3.7 million, net of debt issuance costs, and payments on debt of approximately \$3.0 million.

### ***Capital Resources***

Our sources of cash have historically consisted of revenues from our operations, including product sales and NRE revenues from our JDLA, debt and equity financings and equipment leasing arrangements.

#### *SVB Credit Agreement*

On October 31, 2009, we entered into a credit agreement with Silicon Valley Bank (“SVB”), which was most recently amended on January 29, 2016 (as amended, the “SVB Credit Agreement”). The SVB Credit Agreement provides that we can borrow up to the lesser of (i) 80% of eligible accounts receivable, or (ii) \$5.0 million, subject to certain adjustments as set forth in the SVB Credit Agreement.

We made no borrowings under the SVB Credit Agreement in the nine months ended October 1, 2016 and September 26, 2015. At October 1, 2016 and January 2, 2016, we had no borrowings under the SVB Credit Agreement and we had borrowing availability of approximately \$0.9 million and \$0.5 million, respectively.

#### *February 2015 Public Offering of Common Stock*

On February 24, 2015, we completed a registered firm commitment underwritten public offering (the “2015 Offering”) of 8,846,154 shares of our common stock at a price to the public of \$1.30 per share, which includes 1,153,846 shares sold pursuant to the full exercise by the underwriters in the 2015 Offering of their option to purchase additional shares to cover over-allotments. The net proceeds to us from the 2015 Offering were approximately \$10.5 million, after deducting underwriting discounts and commissions and estimated offering expenses paid by us.

#### *Convertible Promissory Note to SVIC*

On November 18, 2015 (the “Closing Date”), we entered into a Senior Secured Convertible Note and Warrant Purchase Agreement (“SVIC Purchase Agreement”) with SVIC No. 28 New Technology Business Investment L.L.P., an affiliate of Samsung Venture Investment Co. (“SVIC”), pursuant to which we sold to SVIC a Senior Secured Convertible Promissory Note (“SVIC Note”) and a Stock Purchase Warrant (“SVIC Warrant”), each dated as of the Closing Date. The SVIC Note has an original principal amount of \$15.0 million, accrues interest at a rate of 2.0% per year, is due and payable in full on December 31, 2021 (“SVIC Note Maturity Date”) and the principal and accrued but unpaid interest of which are convertible into shares of our common stock at a conversion price of \$1.25 per share (the “Conversion Price”), subject to certain adjustments as set forth therein on the SVIC Note Maturity Date. Upon a change of control prior to the SVIC Note Maturity Date, the SVIC Note may, at our option, be assumed by the surviving entity or be redeemed upon the consummation of such change of control for the principal and accrued but unpaid interest as of the redemption date. The SVIC Warrant grants SVIC a right to purchase 2,000,000 shares of our common stock at an exercise price of \$0.30 per share, subject to certain adjustments as set forth therein, is only exercisable in the event we exercise our right to redeem the SVIC Note prior to the SVIC Note Maturity Date and expires on December 31, 2025. Proceeds from the SVIC Note were used to pay off our prior loan from Fortress.

#### *September 2016 Public Offering of Common Stock*

On September 23, 2016, we completed a registered firm commitment underwritten public offering (the “2016 Offering”), pursuant to which we sold 9,200,000 shares of our common stock at a price to the public of \$1.25 per share. The net proceeds to us from the 2016 Offering were approximately \$10.3 million, after deducting underwriting discounts and commissions and offering expenses paid or payable by us.

*Equipment Leasing Arrangements*

We have in the past utilized equipment leasing arrangements to finance certain capital expenditures. Although equipment leases did not contribute material cash during the periods covered by this report, they continue to be a financing alternative that we may pursue in the future.

*Sufficiency of Cash Balances and Potential Sources of Additional Capital*

We believe our existing cash balance, together with cash provided by our operations and borrowing availability under the SVB Credit Agreement, net of cash expected to be used in operations, will be sufficient to meet our anticipated cash needs for at least the next 12 months. Should we need additional capital, we may seek to raise capital through, among other things, public and private equity offerings and/or debt financings. Our future capital requirements will depend on many factors, including our levels of net product sales and any additional NRE or other revenues we may receive, the timing and extent of expenditures to support product sales and marketing, research and development activities, the expansion of manufacturing capacity both domestically and internationally, market acceptance of our products, intellectual property enforcement activities and strategic collaborations or other transactions. Additional funds may not be available when needed, on terms acceptable to us, or at all. If adequate working capital is not available when needed, we may be required to significantly modify our business model and operations. Insufficient working capital could cause us to be unable to execute our business plan, take advantage of potential opportunities, or respond to competitive pressures or customer requirements. It may also cause us to delay, scale back or eliminate some or all of our research and development programs, to implement cost-cutting measures to reduce spending to a sustainable level or to reduce or cease operations.

*Off-Balance Sheet Arrangements*

We do not have any off-balance sheet arrangements that have or are reasonably likely to have a current or future effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditure or capital resources that is material to investors.

**Item 3. Quantitative and Qualitative Disclosures About Market Risk**

Not applicable.

**Item 4. Controls and Procedures**

*Evaluation of Disclosure Controls and Procedures*

Our management carried out an evaluation, under the supervision and with the participation of our principal executive officer and principal financial officer, of the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) of the Securities Exchange Act of 1934, as amended (“Exchange Act”). Based upon that evaluation, our principal executive officer and principal financial officer concluded that our disclosure controls and procedures are effective to provide reasonable assurance that information required to be disclosed by us in reports that we file or submit under the Exchange Act (i) is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the Securities and Exchange Commission (“SEC”) and (ii) is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

*Change in Internal Control over Financial Reporting*

During the fiscal quarter ended October 1, 2016, there were no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

## PART II. OTHER INFORMATION

### Item 1. Legal Proceedings

The information set forth under the heading “Litigation and Patent Reexaminations” in Note 7 of the notes to the unaudited condensed consolidated financial statements included in Part I, Item 1 of this report is incorporated herein by reference.

### Item 1A. Risk Factors

*Investing in our common stock involves a high degree of risk. Before making any investment decision with respect to our securities, you should carefully consider each of the following risk factors as well as the other information in this report. Each of these risk factors, either alone or taken together, could adversely affect our business, operating results and financial condition, as well as adversely affect the value of an investment in our common stock. The risks described below are not the only ones we face. Additional risks of which we are not presently aware or that we currently believe are immaterial may also impair our business operations and financial position. If any of the events described below were to occur, our financial condition, our ability to access capital resources, our results of operations and/or our future growth prospects could be materially and adversely affected and the market price of our common stock could decline. As a result, you could lose some or all of any investment you have made or may make in our common stock. In assessing these risks, you should also refer to the other information contained or incorporated by reference in this report, including our condensed consolidated financial statements and related notes.*

#### Risks Related to Our Business

***We have historically incurred losses and may continue to incur losses.***

Since the inception of our business in 2000, we have only experienced one fiscal year (2006) with profitable results. In order to regain profitability, or to achieve and sustain positive cash flows from operations in the future, we must reduce operating expenses and/or increase our revenues and gross margins. Although we have in the past engaged in a series of cost reduction actions, and believe that we could reduce our current level of expenses through elimination or reduction of strategic initiatives, such expense reductions alone may not make us profitable or allow us to sustain profitability if it is achieved and eliminating or reducing strategic initiatives could limit our opportunities and prospects. Our ability to achieve profitability will depend on increased revenue growth from, among other things, monetization of our intellectual property, increased demand for our memory subsystems and other product offerings, as well as our ability to expand into new and emerging markets. We may not be successful in achieving the necessary revenue growth or the expected expense reductions. Moreover, we may be unable to sustain past or expected future expense reductions in subsequent periods. We may not achieve profitability or sustain such profitability, if achieved, on a quarterly or annual basis in the future.

Any failure to achieve profitability could result in increased capital requirements and pressure on our liquidity position. We believe our future capital requirements will depend on many factors, including our levels of net product sales and any additional non-recurring engineering (“NRE”) or other revenues we may receive, the timing and extent of expenditures to support product sales and marketing, research and development activities, the expansion of manufacturing capacity both domestically and internationally, market acceptance of our products, intellectual property enforcement activities and strategic collaborations or other transactions. Our capital requirements could result in our having to, or otherwise choosing to, seek additional funding through public or private equity offerings or debt financings. Such funding may not be available when needed, on terms acceptable to us or at all, any of which could result in our inability to meet our financial obligations and other related commitments.

***We may not have sufficient working capital to fund our planned operations, and, as a result, we may need to raise additional capital in the future in order to continue operating our business and developing new products and technologies, which capital may not be available when needed, on acceptable terms or at all.***

We believe that, taking into account our planned activities, we have sufficient cash resources to satisfy our capital needs for at least the next twelve months. However, our estimates of our operating expenses and working capital requirements could be incorrect, and we may use our cash resources faster than we presently anticipate. Further, some or all of our ongoing or planned investments may not be successful and could result in further losses. In addition, irrespective of our cash resources, we may be contractually or legally obligated to make certain investments which cannot be postponed.

Our capital requirements will depend on many factors, including, among others:

- the acceptance of, and demand for, our products;
- our success and that of our strategic partners in developing and selling products derived from our technology;
- our continued listing on The NASDAQ Capital Market;
- the costs of further developing our existing, and developing new, products or technologies;
- the extent to which we invest in new technology, testing and product development;
- the costs associated with defending and enforcing our intellectual property rights;
- the timing of vendor payments and the collection of receivables, among other factors affecting our working capital;
- the exercise of outstanding stock options or warrants to acquire our common stock;
- the number and timing of acquisitions and other strategic transactions in which we participate, if any; and
- the costs associated with the continued operation, and any future growth, of our business.

We expect to rely in the near term on funds raised pursuant to recent public and private placement offerings of debt and equity securities, such as our November 2015 issuance of convertible debt to Samsung and our September 2016 public offering of common stock. However, until we can generate a sufficient amount of revenue to finance our cash requirements, which we may never do, we may need to increase our liquidity and capital resources by one or more measures, which may include, among others, reducing operating expenses, restructuring our balance sheet by negotiating with creditors and vendors, entering into strategic partnerships or alliances, raising additional financing through the issuance of debt, equity, or convertible securities and working to increase revenue growth through new product sales. There is no guarantee that we will be able to obtain capital when needed, on terms acceptable to us, or at all.

Insufficient funds would have a material adverse effect on our business and operations and could cause us to fail to execute our business plan, fail to take advantage of future opportunities or fail to respond to competitive pressures or customer requirements, and further may require us to significantly modify our business model and/or reduce our operations, which could include delaying, scaling back or eliminating some or all of our ongoing and planned investments in corporate infrastructure, research and development projects, regulatory submissions, business development initiatives, and sales and marketing activities, among other investments. Modification of our business model and operations could result in an impairment of assets, the effects of which cannot be determined. Furthermore, if we continue to issue equity or convertible debt securities to raise additional funds, our existing stockholders may experience significant dilution, and the new equity or debt securities may have rights, preferences and privileges that are

superior to those of our existing stockholders. If we incur additional debt, it may increase our leverage relative to our earnings or to our equity capitalization.

***We have incurred a material amount of indebtedness to fund our operations, the terms of which require that we pledge substantially all of our assets as security. Our level of indebtedness and the terms of such indebtedness, could adversely affect our operations and liquidity.***

We have incurred debt secured by all of our assets under our convertible note issued to an affiliate of Samsung Venture Investment Corporation (“SVIC”) and our credit facility with Silicon Valley Bank (“SVB”). Our convertible promissory note issued to SVIC is secured by a first priority security interest in our patent portfolio and a second priority security interest in substantially all of our other assets. Our credit facility with SVB is secured by a first priority security interest in all of our assets other than our patent portfolio, to which SVB has a second priority security interest. The SVIC and SVB debt instruments contain customary representations, warranties and indemnification provisions, as well as affirmative and negative covenants that, among other things, restrict our ability to:

- incur additional indebtedness or guarantees;
- incur liens;
- make investments, loans and acquisitions;
- consolidate or merge
- sell, or exclusively license assets, including capital stock of subsidiaries;
- alter our business;
- change any provision of our organizational documents;
- engage in transactions with affiliates; and
- pay dividends or make distributions.

The SVIC and SVB debt instruments also include events of default, including, among other things, payment defaults, breaches of representations, warranties or covenants, certain bankruptcy events, and certain material adverse changes. If we were to default under either debt instrument and were unable to obtain a waiver for such a default, among other remedies, the lenders could accelerate our obligations under the debt instruments and exercise their rights to foreclose on their security interests, which would cause substantial harm to our business and prospects.

Incurrence and maintenance of this debt could have material consequences, such as:

- requiring us to dedicate a portion of our cash flow from operations and other capital resources to debt service, thereby reducing our ability to fund working capital, capital expenditures, and other cash requirements;
- increasing our vulnerability to adverse economic and industry conditions;
- limiting our flexibility in planning for, or reacting to, changes and opportunities in, our business and industry, which may place us at a competitive disadvantage; and
- limiting our ability to incur additional debt on acceptable terms, if at all.

***We are involved in and expect to continue to be involved in costly legal and administrative proceedings to defend against claims that we infringe the intellectual property rights of others or to enforce or protect our intellectual property rights.***

As is common in the semiconductor industry, we have experienced substantial litigation regarding patent and other intellectual property rights. Lawsuits claiming that we are infringing others' intellectual property rights have been and may in the future be brought against us, and we are currently defending against claims of invalidity in the USPTO.

The process of obtaining and protecting patents is inherently uncertain. In addition to the patent issuance process established by law and the procedures of the USPTO, we must comply with JEDEC administrative procedures in protecting our intellectual property within its industry standard setting process. These procedures evolve over time, are subject to variability in their application, and may be inconsistent with each other. Failure to comply with JEDEC's administrative procedures could jeopardize our ability to claim that our patents have been infringed.

By making use of new technologies and entering new markets there is an increased likelihood that others might allege that our products infringe on their intellectual property rights. Litigation is inherently uncertain, and an adverse outcome in existing or any future litigation could subject us to significant liability for damages or invalidate our proprietary rights. An adverse outcome also could force us to take specific actions, including causing us to:

- cease manufacturing and/or selling products, or using certain processes, that are claimed to be infringing a third party's intellectual property;
- pay damages (which in some instances may be three times actual damages), including royalties on past or future sales;
- seek a license from the third party intellectual property owner to use their technology in our products, which license may not be available on reasonable terms, or at all; or
- redesign those products that are claimed to be infringing a third party's intellectual property.

If any adverse ruling in any such matter occurs, any resulting limitations in our ability to market our products, or delays and costs associated with redesigning our products or payments of license fees to third parties, or any failure by us to develop or license a substitute technology on commercially reasonable terms could have a material adverse effect on our business, financial condition and results of operations.

There is a limited pool of experienced technical personnel that we can draw upon to meet our hiring needs. As a result, a number of our existing employees have worked for our existing or potential competitors at some point during their careers, and we anticipate that a number of our future employees will have similar work histories. In the past, some of these competitors have claimed that our employees misappropriated their trade secrets or violated non-competition or non-solicitation agreements. Some of our competitors may threaten or bring legal action involving similar claims against us or our existing employees or make such claims in the future to prevent us from hiring qualified candidates. Lawsuits of this type may be brought, even if there is no merit to the claim, simply as a strategy to drain our financial resources and divert management's attention away from our business.

Our business strategy also includes litigating claims against others, including our competitors, customers and former employees, to enforce our intellectual property, contractual and commercial rights including, in particular, our trade secrets, as well as to challenge the validity and scope of the proprietary rights of others. We could become subject to counterclaims or countersuits against us as a result of this litigation. Moreover, any legal disputes with customers could cause them to cease buying or using our products or delay their purchase of our products and could substantially damage our relationship with them.

Any litigation, regardless of its outcome, would be time consuming and costly to resolve, divert our management's time and attention and negatively impact our results of operations. As a result, any current or future infringement claims by or against third parties or claims for indemnification by customers or end users of our products resulting from infringement claims could materially adversely affect our business, financial condition or results of operations.

As a result of an unfavorable outcome at the Patent Trial and Appeal Board ("PTAB") of the United States Patent and Trademark Office ("USPTO") in connection with a decision on appeal in the reexaminations of U.S. Patent No. 7,619,912 ("912 Patent"), which covers important features of DDR3 load reduced dual in-line memory module ("LRDIMM") designs, and U.S. Patent No. 7,864,627 ("627 Patent"), we may expend significant resources to continue to pursue valid positions in the '912 Patent and '627 Patent reexaminations, which may not be resolved in a timely manner and may not yield a more favorable outcome. See Note 7 to our condensed consolidated financial statements included in this report for further information about this litigation.

***We are involved in and expect to continue to be involved in legal proceedings at the ITC to stop infringing SK hynix RDIMM and LRDIMM products from entering the United States and in district court to seek damages for patent infringement against SK hynix.***

On September 1, 2016, we took action to safeguard our innovations by filing legal proceedings for patent infringement against SK hynix Inc., a South Korean memory semiconductor supplier ("SK hynix"), and two of its subsidiaries in the U.S. International Trade Commission ("ITC") and the U.S. District Court for the Central District of California. We are seeking an exclusion order in the ITC that directs U.S. Customs and Border Protection to stop allegedly infringing SK hynix registered dual in-line memory module ("RDIMM") and LRDIMM products from entering the United States. ITC investigations proceed on an expedited basis, typically advancing to trial within one year from the filing of the complaint and with a final decision issued a few months later, but there can be no guarantee that the rendering of a final decision will follow such a timeline. In the district court proceedings, we are primarily seeking damages, but we expect this action will likely remain stayed until the ITC proceeding concludes.

Intellectual property litigation is expensive and time-consuming, regardless of the merits of any claim, and could divert our management's attention from operating the business. In addition, lawsuits in the ITC and in district courts are subject to inherent uncertainties due to the complexity of the technical issues involved, and we cannot be assured that we will be successful in our actions. Moreover, if we are counter-sued by SK hynix and lose the suit, we could be required to pay substantial damages. Furthermore, we may not be able to reach a settlement with SK hynix to license our patent portfolio on terms acceptable to us, and even if we are able to reach a settlement, the terms of the licensing arrangement may not be as favorable as we anticipated. Any of the foregoing could cause us to incur significant costs and prevent us from selling our products and materially adversely affect our business, financial condition or results of operations.

***Our revenues and results of operations have been substantially dependent on NVvault in historical periods and we may be unable to replace revenue lost from the rapid decline in NVvault sales.***

For the nine months ended October 1, 2016 and September 26, 2015, our NVvault non-volatile dual-in line memory module (“NVDIMM”) used in cache-protection and data logging applications, including our NVvault battery-free, the flash-based cache system, accounted for approximately 1% and 28% of total net product sales, respectively. We have experienced a steady decline in NVvault sales in recent years, due in large part to our loss of our former most significant NVvault customer, Dell, beginning in 2012. We recognized no NVvault sales to Dell in the nine months ended October 1, 2016 and September 26, 2015. We expect no future demand from Dell for our NVvault products. In order to leverage our NVvault technology and diversify our customer base, and to secure one or more new key customers, we continue to pursue additional qualifications of NVvault with other original equipment manufacturers (“OEMs”) and to target new customer applications such as online transaction processing, virtualization, Big Data analytics, high speed transaction processing, high-performance database, and in-memory database applications. We also introduced EXPRESSvault in March 2011 and the next generation of EXPRESSvault (EV3) in July 2015 and we continue to pursue qualification of the next generation DDR3 NVvault and DDR4 NVvault with customers. Our future operating results will depend on our ability to commercialize these NVvault product extensions, as well as other products such as HybriDIMM and other high-density and high-performance solutions. HybriDIMM is still under development and may require substantial additional investment and the services and attention of key employees who have competing demands on their available time. Although we believe that our Joint Development and License Agreement (“JDLA”) with Samsung Electronics Co., Ltd. (“Samsung”) entered into in November 2015 may advance the development of this product and that Samsung may prove to be an important strategic partner that can facilitate getting this technology to market, our partnership with Samsung and any other steps we take to further the development of this or any other products in development could fail. If we are not be successful in expanding our qualifications or marketing any new or enhanced products, we will be unable to secure revenues sufficient to replace lost NVvault revenue and our results of operations and prospects could be materially harmed.

***We are subject to risks relating to our focus on developing our HybriDIMM™ and NVvault® products and lack of market diversification.***

We have historically derived a substantial portion of our revenues from sales of our high-performance modular memory subsystems for use in the server market. We expect these memory subsystems to continue to account for a portion of our revenues in the near term. We believe that market acceptance of these products or derivative products that incorporate our core memory subsystem technology for use in servers is critical to our success.

We have invested a significant portion of our research and development budget into the design of application-specific integrated circuits (“ASIC”) and hybrid devices, including our NVvault family of products and most recently our next generation HybriDIMM memory subsystem. These products are subject to increased risks as compared to our legacy products. For example:

- we are dependent on a limited number of suppliers for both the dynamic random access memory integrated circuits (“DRAM ICs” or “DRAM”) and the ASIC devices that are essential to the functionality of our products, and in the past we have experienced supply chain disruptions and shortages of DRAM and NAND flash memory (“NAND flash”) required to create our NVvault family of products as a result of business issues that are specific to our suppliers or the industry as a whole;
- we may be unable to achieve new qualifications or customer or market acceptance of our memory subsystem, NVvault products or other new products such as HybriDIMM, or achieve such acceptance in a timely manner;
- the NVvault products or other new products such as HybriDIMM may contain currently undiscovered flaws, the correction of which would result in increased costs and time to market; and
- we are required to demonstrate the quality and reliability of our products to our customers, and are required to qualify these products with our customers, which requires a significant investment of time and resources prior to the receipt of any revenue from such customers.

Additionally, if the demand for servers deteriorates or if the demand for our products to be incorporated in servers declines, our operating results would be adversely affected, and we would be forced to diversify our product portfolio and our target markets. We may not be able to achieve this diversification, and our inability to do so may adversely affect our business.

***We are subject to risks of disruption in the supply of FPGAs, DRAM ICs, NAND flash and other components of our products.***

Our ability to fulfill customer orders or produce qualification samples is dependent on a sufficient supply of field-programmable gate arrays (“FPGAs”), DRAM ICs and NAND flash, which are essential components of our memory subsystems. There are a relatively small number of suppliers of FPGAs, DRAM ICs and NAND flash, and we purchase from only a subset of these suppliers. We have no long-term FPGA, DRAM or NAND flash supply contracts. We also use consumables and other components, including printed circuit boards (“PCBs”), to manufacture our memory subsystems, which we sometimes procure from single or limited sources to take advantage of volume pricing discounts.

From time to time, shortages in DRAM ICs and NAND flash have required some suppliers to limit the supply of their DRAM ICs and NAND flash. We have experienced supply chain disruptions and shortages of DRAM and NAND flash required to create our HyperCloud, NVvault and Planar X VLP products, and we are continually working to secure adequate supplies of the components necessary to fill customers’ orders for our products in a timely manner. If we are unable to obtain a sufficient supply of DRAM ICs, NAND flash or other essential components to meet our customers’ requirements, these customers may reduce future orders for our products or not purchase our products at all, which would cause our net product sales to decline and harm our operating results. In addition, our reputation could be harmed and, even assuming we are successful in resolving supply chain disruptions, we may not be able to replace any lost business with new customers, and we may lose market share to our competitors.

Our dependence on a small number of suppliers and the lack of any guaranteed sources of FPGAs, DRAM and NAND flash supply expose us to several risks, including the inability to obtain an adequate supply of these important components, increases in their costs, delivery delays and poor quality.

Historical declines in customer demand and our revenues have caused us to reduce our purchases of DRAM ICs and NAND flash. Such declines or other fluctuations could continue in the future. If we fail to maintain sufficient purchase levels with some suppliers, our ability to obtain supplies of raw materials may be impaired due to the practice of some suppliers to allocate their products to customers with the highest regular demand.

Our customers qualify the FPGAs, DRAM ICs and NAND flash of our suppliers for use in their systems. If one of our suppliers should experience quality control problems, it may be disqualified by one or more of our customers. This would disrupt our supplies of FPGAs, DRAM ICs and NAND flash and reduce the number of suppliers available to us, and may require that we qualify a new supplier. If our suppliers are unable to produce qualification samples on a timely basis or at all, we could experience delays in the qualification process, which could have a significant impact on our ability to sell that product.

Frequent technology changes and the introduction of next-generation products also may result in the obsolescence of inventory on-hand, such as our custom-built PCBs, which could reduce our net product sales and gross margin and adversely affect our operating performance and financial condition.

***We may be unsuccessful in monetizing our intellectual property portfolio.***

We have dedicated substantial resources to developing a robust intellectual property portfolio and we intend to continue investing in this portfolio. We also intend to aggressively pursue monetization avenues for our intellectual property portfolio, potentially including licensing and/or royalty agreements. However, our revenues are currently generated by our product sales and NRE fees and we may never be successful in generating a revenue stream from our intellectual property, in which case our investments of time, capital and other resources into our intellectual property portfolio may not provide adequate, or any, returns. Although we may pursue agreements with third parties to commercially license certain of our products or technologies, we may never successfully enter into any such agreement.

Further, the terms of any such agreements that we may reach with third -party licensees are uncertain and may not provide sufficient royalty or other licensing revenues to us to justify our costs of developing and maintaining the licensed intellectual property or may otherwise include terms that are not favorable to us. Additionally, the pursuit of licensing arrangements would require by its nature that we relinquish certain of our rights to our technologies and intellectual property that we license to third parties, which could limit our ability to base our own products on such technologies or could reduce the economic value that we receive from such technologies and intellectual property. Additionally, the establishment of arrangements to monetize our intellectual property may be more difficult or costly than expected and require additional personnel, investments and may be a significant distraction for management. In connection with any monetization avenues we may develop, our licenses and royalty revenue may be uncertain from period to period and we may be unable to attract sufficient licensing customers, which would materially and adversely affect our results of operations. Our ability to maintain or increase any licensing revenues we are able to establish would depend on a variety of factors, including novelty, utility, performance, quality, breadth and depth of our current and future intellectual property and technology, all as compared to that of our competitors, as well as our sales and marketing capabilities. Once secured, licensing revenues may also be negatively affected by factors within and outside our control, including reductions in our customers' sales prices, sales volumes and the terms of such license arrangements. If we are not successful in monetizing our intellectual property portfolio, we may never recoup the costs associated with developing, maintaining, defending and enforcing this portfolio and our financial condition would be harmed.

***We may lose our competitive position if we are unable to timely and cost-effectively develop new or enhanced products that meet our customers' requirements and achieve market acceptance or technologies that we can monetize through licensing arrangements or otherwise.***

Our industry is characterized by intense competition, rapid technological change, evolving industry standards and rapid product obsolescence. Evolving industry standards and technological change or new, competitive technologies could render our existing products and technologies obsolete. Accordingly, our ability to compete in the future will depend in large part on our ability to identify and develop new or enhanced products and technologies on a timely and cost-effective basis, and to respond to changing customer requirements. In order to develop and introduce new or enhanced products and technologies, we need to:

- identify and adjust to the changing requirements of our current and potential customers;
- identify and adapt to emerging technological trends and evolving industry standards in our markets;
- design and introduce cost-effective, innovative and performance- enhancing features that differentiate our products and technologies from those of our competitors;
- develop relationships with potential suppliers of components required for these new or enhanced products and technologies;
- qualify these products for use in our customers' products; and
- develop and maintain effective marketing strategies.

Our product development efforts are costly and inherently risky. It is difficult to foresee changes or developments in technology or anticipate the adoption of new standards. Moreover, once these changes or developments are identified, if at all, we will need to hire the appropriate technical personnel or retain third-party designers, develop the product, identify and eliminate design flaws, and manufacture the product in production quantities either in-house or through third-party manufacturers. As a result, we may not be able to successfully develop new or enhanced products or we may experience delays in the development and introduction of new or enhanced products. Delays in product development and introduction could result in the loss of, or delays in generating, net products sales or other revenues and the loss of market share, as well as damage to our reputation. Even if we develop new or enhanced products or technologies, they may not meet our customers' requirements or gain market acceptance.

***Our customers require that our products undergo a lengthy and expensive qualification process without any assurance of sales.***

Our prospective customers generally make a significant commitment of resources to test and evaluate our memory subsystems prior to purchasing our products and integrating them into their systems. This extensive qualification process involves rigorous reliability testing and evaluation of our products, which may continue for nine months or longer and is often subject to delays. In addition to qualification of specific products, some of our customers may also require us to undergo a technology qualification if our product designs incorporate innovative technologies that the customer has not previously encountered. Such technology qualifications often take substantially longer than product qualifications and can take over a year to complete. Qualification by a prospective customer does not ensure any sales to that prospective customer. Even after successful qualification and sales of our products to a customer, changes in our products, our manufacturing facilities, our production processes or our component suppliers may require a new qualification process, which may result in additional delays.

In addition, because the qualification process is both product specific and platform specific, our existing customers sometimes require us to re-qualify our products, or to qualify our new products, for use in new platforms or applications. For example, as our OEM customers transition from prior generation architectures to current generation architectures, we must design and qualify new products for use by those customers. In the past, the process of design and qualification has taken up to nine months to complete, during which time our net product sales to those customers declined significantly. After our products are qualified, it can take several months before the customer begins production and we begin to generate sales from such customer.

Likewise, when our memory and NAND flash component vendors discontinue production of components, it may be necessary for us to design and qualify new products for our customers. Such customers may require of us or we may decide to purchase an estimated quantity of discontinued memory components necessary to ensure a steady supply of existing products until products with new components can be qualified. Purchases of this nature may affect our liquidity. Additionally, our estimation of quantities required during the transition may be incorrect, which could adversely impact our results of operations through lost revenue opportunities or charges related to excess and obsolete inventory.

We must devote substantial resources, including design, engineering, sales, marketing and management efforts, to qualify our products with prospective customers in anticipation of sales. Significant delays in the qualification process, could result in an inability to keep up with rapid technology change or new, competitive technologies. If we delay or do not succeed in qualifying a product with an existing or prospective customer, we will not be able to sell that product to that customer, which may result in our holding excess and obsolete inventory and harm our operating results and business.

***Sales to a limited number of customers represent a significant portion of our net product sales and the loss of, or a significant reduction in sales to, any one of these customers could materially harm our business.***

Sales to certain of our OEM customers have historically represented a substantial majority of our net product sales. Approximately 29% and 10% of our net product sales in the nine months ended October 1, 2016 were to two customers, the largest of which was a new customer in 2016. Approximately 25% and 10% of our net product sales in the nine months ended September 26, 2015 were to two customers, one of which has purchased few products and contributed only a small portion of our revenues during 2016 to date. The composition of major customers and their respective contributions to our net product sales have varied and will likely continue to vary from period to period as OEMs progress through the life cycle of the products they produce and sell. We do not have long-term agreements with any of our customers and, as such, any or all of them could decide at any time to discontinue, decrease or delay their purchase of our products. In addition, the prices that these customers pay for our products could change at any time. Further, we may not be able to sell some products developed for one customer to a different customer because our products are often designed to address specific customer requirements, and even if we are able to sell these products to another customer, our margin on such products may be reduced. Additionally, while we may not be contractually obligated to accept returned products, we may determine that it is in our best interest to accept returns from certain large or key customers in order to maintain good relations with them, and such additional returns could negatively impact our

operating results. Moreover, because a few customers account for a substantial portion of our net product sales, the failure of any one of these customers to pay on a timely basis would negatively impact our cash flow. As a result, the loss of any of our customers, or a significant reduction in sales to or difficulties in collecting payment from any of them, could significantly reduce our net product sales and adversely affect our operating results.

Our ability to maintain or increase our net product sales to our key customers depends on a variety of factors, many of which are beyond our control. These factors include our customers' continued sales of servers and other computing systems that incorporate our memory subsystems and our customers' continued incorporation of our products into their systems. Because of these and other factors, sales to these customers may not continue and the amount of such sales may not reach or exceed historical levels in any future period.

***A limited number of relatively large potential customers dominate the markets for our products.***

Our target markets are characterized by a limited number of large companies. Consolidation in one or more of our target markets may further increase this industry concentration. As a result, we anticipate that sales of our products will continue to be concentrated among a limited number of large customers in the foreseeable future. We believe that our financial results will depend in significant part on our success in establishing and maintaining relationships with, and effecting substantial sales to, these potential customers. Even if we establish and successfully maintain these relationships, our financial results will be largely dependent on these customers' sales and business results.

***If a standardized memory solution that addresses the demands of our customers is developed, our net product sales and market share may decline.***

Many of our memory subsystems are specifically designed for our OEM customers' high-performance systems. In a drive to reduce costs and assure supply of their memory module demand, our OEM customers may endeavor to design Joint Electron Device Engineering Council ("JEDEC") standard DRAM modules into their new products. Although we also manufacture JEDEC modules, this trend could reduce the demand for our higher priced customized memory solutions, which would have a negative impact on our financial results. In addition, the adoption of a JEDEC standard module instead of a previously custom module might allow new competitors to participate in a share of our customers' memory module business that previously belonged to us.

If our OEM customers were to adopt JEDEC standard modules, our future business may be limited to identifying the next generation of high-performance memory demands of OEM customers and developing solutions that address such demands. Until fully implemented, any next generation of products may constitute a significantly smaller market, which would reduce our revenues and market share.

***We may not be able to maintain our competitive position because of the intense competition in our targeted markets.***

Our products are primarily targeted for the server, high-performance computing and communications markets. These markets are intensely competitive, as numerous companies vie for business opportunities at a limited number of large OEMs. We face competition from DRAM suppliers, memory module providers and logic suppliers for many of our products, including NVvault and HyperCloud. Additionally, if and to the extent we enter new markets or pursue licensing arrangements to monetize our technologies and intellectual property portfolio, we may face competition from a large number of competitors that produce solutions utilizing similar or competing technologies.

Some of our customers and suppliers may have proprietary products or technologies that are competitive with our products, or could develop internal solutions or enter into strategic relationships with, or acquire, existing high-density memory module providers. Any of these actions could reduce our customers' demand for our products. Some of our significant suppliers of memory integrated circuits may be able to manufacture competitive products at lower costs by leveraging internal efficiencies, or could choose to reduce our supply of memory integrated circuits, adversely affecting our ability to manufacture our memory subsystems on a timely basis, if at all.

Certain of our competitors have substantially greater financial, technical, marketing, distribution and other resources, broader product lines, lower cost structures, greater brand recognition and longer standing relationships with

customers and suppliers. Some of our competitors may also have a greater ability to influence industry standards than we do, as well as more extensive patent portfolios.

Our ability to compete in our current target markets and in future markets will depend in large part on our ability to successfully develop, introduce and sell new and enhanced products or technologies on a timely and cost-effective basis and to respond to changing market requirements. We expect our competitors to continue to improve the performance of their current products, reduce their prices and introduce new or enhanced technologies that may offer greater performance and improved pricing. If we are unable to match or exceed the improvements made by our competitors, our market position would deteriorate and our net product sales would decline. In addition, our competitors may develop future generations and enhancements of competitive products that may render our technologies obsolete or uncompetitive.

***If we fail to protect our proprietary rights, our customers or our competitors might gain access to our proprietary designs, processes and technologies, which could adversely affect our operating results.***

We rely on a combination of patent protection, trade secret laws and restrictions on disclosure to protect our intellectual property rights. We have submitted a number of patent applications regarding our proprietary processes and technology. It is not certain when or if any of the claims in the remaining applications will be allowed. As of October 1, 2016, we had 65 U.S. and foreign patents issued and over 41 pending applications worldwide. We intend to continue filing patent applications with respect to most of the new processes and technologies that we develop. However, patent protection may not be available for some of these processes or technologies.

It is possible that our efforts to protect our intellectual property rights may not:

- prevent challenges to, or the invalidation or circumvention of, our existing intellectual property rights;
- prevent our competitors from independently developing similar products or technologies, duplicating our products or technologies or designing around any patents that may be issued to us;
- prevent disputes with third parties regarding ownership of our intellectual property rights;
- prevent disclosure of our trade secrets and know-how to third parties or into the public domain;
- result in valid patents, including international patents, from any of our pending or future applications; or
- otherwise adequately protect our intellectual property rights.

Others may attempt to reverse engineer, copy or otherwise obtain and use our proprietary technologies without our consent. Monitoring the unauthorized use of our technologies is difficult. We cannot be certain that the steps we have taken will prevent the unauthorized use of our technologies. This is particularly true in foreign countries, such as the People's Republic of China ("PRC"), where we have established a manufacturing facility and where the laws may not protect our proprietary rights to the same extent as applicable U.S. laws.

If some or all of the claims in our patent applications are not allowed, or if any of our intellectual property protections are limited in scope by the USPTO or our foreign patents being subjected to invalidation proceedings with their respective authorities, or by a court or circumvented by others, we could face increased competition with regard to our products and be unable to execute on our strategy of monetizing our intellectual property. Increased competition or an inability to monetize our intellectual property could significantly harm our business, our operating results and prospects. Currently four of our patents are the subject of *Inter Partes* Reexamination proceedings with the USPTO, or appeals therefrom, and we cannot assure you that any of these proceedings will result in an outcome favorable to us.

***Our operating results may be adversely impacted by worldwide economic and political uncertainties and specific conditions in the markets we address, including the cyclical nature of and volatility in the memory market and semiconductor industry.***

Adverse changes in domestic and global economic and political conditions have made it extremely difficult for our customers, our vendors and us to accurately forecast and plan future business activities, and these conditions have caused and could continue to cause U.S. and foreign businesses to slow spending on our products and services, which would further delay and lengthen sales cycles. In addition, sales of our products are dependent upon demand in the computing, networking, communications, printer, storage and industrial markets. These markets have been cyclical and are characterized by wide fluctuations in product supply and demand. These markets have also experienced significant downturns, often connected with, or in anticipation of, maturing product cycles, reductions in technology spending and declines in general economic conditions. These downturns have been characterized by diminished product demand, production overcapacity, high inventory levels and the erosion of average selling prices and may result in reduced willingness of potential licensees to enter into license agreements with us.

We may experience substantial period-to-period fluctuations in operating results due to factors affecting the computing, networking, communications, printers, storage and industrial markets. A decline or significant shortfall in demand in any one of these markets could have a material adverse effect on the demand for our products and as a result, our sales would likely decline. In addition, because many of our costs and operating expenses are relatively fixed, if we are unable to control our expenses adequately in response to reduced sales, our gross margins, operating income and cash flow would be negatively impacted.

During challenging economic times our customers may face issues gaining timely access to sufficient credit, which could impair their ability to make timely payments to us. If that were to occur, we may be required to increase our allowance for doubtful accounts and our ability to timely collect payments would be negatively impacted. Furthermore, our vendors may face similar issues gaining access to credit, which may limit their ability to supply components or provide trade credit to us. We cannot predict the timing, strength or duration of any economic slowdown or subsequent economic recovery, either worldwide or in the memory market and related semiconductor industry. If the economy or markets in which we operate do not improve or if conditions worsen, our business, financial condition and results of operations will likely be materially and adversely affected. Additionally, the combination of our lengthy sales cycle coupled with challenging macroeconomic conditions could compound the negative impact on the results of our operations.

***Our lack of a significant backlog of unfilled orders and the difficulty inherent in estimating customer demand makes it difficult to forecast our short-term production requirements to meet that demand, and any failure to optimally calibrate our production capacity and inventory levels to meet customer demand could adversely affect our revenues, gross margins and earnings.***

We make significant decisions regarding the levels of business that we will seek and accept, production schedules, component procurement commitments, personnel needs and other resource requirements based on our estimates of customer requirements. We do not have long-term purchase agreements with any of our customers. Instead, our customers often place purchase orders no more than two weeks in advance of their desired delivery date, and these purchase orders generally have no cancellation or rescheduling penalty provisions. The short-term nature of commitments by many of our customers, the fact that our customers may cancel or defer purchase orders for any reason, and the possibility of unexpected changes in demand for our customers' products each reduce our ability to accurately estimate future customer requirements for our products. This fact, combined with the quick turn-around times that apply to each order, makes it difficult to forecast our production needs and allocate production capacity efficiently. As a result, we attempt to forecast the demand for the DRAM ICs, NAND flash and other components needed to manufacture our products, but any such forecasts could turn out to be wrong. Further, lead times for components vary significantly and depend on various factors, such as the specific supplier and the demand and supply for a component at a given time.

Our production expense and component purchase levels are based in part on our forecasts of our customers' future product requirements and to a large extent are fixed in the short term. As a result, we likely would be unable to adjust spending on a timely basis to compensate for any unexpected shortfall in customer orders. If we overestimate

customer demand, we may have excess raw material inventory of DRAM ICs and NAND flash. If there is a subsequent decline in the prices of DRAM ICs or NAND flash, the value of our inventory will fall. As a result, we may need to write-down the value of our DRAM IC or NAND flash inventory, which may result in a significant decrease in our gross margin and financial condition. Also, to the extent that we manufacture products in anticipation of future demand that does not materialize, or in the event a customer cancels or reduces outstanding orders, we could experience an unanticipated increase in our finished goods inventory. In the past, we have had to write-down inventory due to obsolescence, excess quantities and declines in market value below our costs. Any significant shortfall of customer orders in relation to our expectations could hurt our operating results, cash flows and financial condition.

Also, any rapid increases in production required by our customers could strain our resources and reduce our margins. If we underestimate customer demand, we may not have sufficient inventory of DRAM ICs and NAND flash on hand to manufacture enough product to meet that demand. We also may not have sufficient manufacturing capacity at any given time to meet our customers' demands for rapid increases in production. These shortages of inventory and capacity would lead to delays in the delivery of our products, and we could forego sales opportunities, lose market share and damage our customer relationships.

In addition, we recently agreed to resell certain Samsung products to end customers that Samsung does not reach in its distribution model. This includes small to medium storage customers, appliance customers, system builders, and cloud and datacenter customers. However, there is no guarantee that there is sufficient demand from end customers for these products, and the lack of sales of these products may adversely impact our financial conditions and results of operations. Furthermore, these products generally carry lower gross margin than our own products, as a result, a substantial increase in the resale of these products may reduce our overall gross profit margins.

***Declines in our average sales prices, driven by volatile prices for DRAM ICs and NAND flash, among other factors, may result in declines in our revenues and gross profit.***

Our industry is competitive and historically has been characterized by declines in average sales price, based in part on the market price of DRAM ICs and NAND flash, which have historically constituted a substantial portion of the total cost of our memory subsystems. Our average sales prices may decline due to several factors, including overcapacity in the worldwide supply of DRAM and NAND flash memory components as a result of worldwide economic conditions, increased manufacturing efficiencies, implementation of new manufacturing processes and expansion of manufacturing capacity by component suppliers.

Once our prices with a customer are negotiated, we are generally unable to revise pricing with that customer until our next regularly scheduled price adjustment. Consequently, we are exposed to the risks associated with the volatility of the price of DRAM ICs and NAND flash during that period. If the market prices for DRAM ICs and NAND flash increase, we generally cannot pass the price increases on to our customers for products purchased under an existing purchase order. As a result, our cost of sales could increase and our gross margins could decrease. Alternatively, if there are declines in the price of DRAM ICs and NAND flash, we may need to reduce our selling prices for subsequent purchase orders, which may result in a decline in our expected net product sales.

In addition, since a large percentage of our sales are to a small number of customers that are primarily distributors and large OEMs, these customers have exerted, and we expect they will continue to exert, pressure on us to make price concessions. If not offset by increases in volume of sales or the sales of newly-developed products with higher margins, decreases in average sales prices would likely have a material adverse effect on our business and operating results.

***A prolonged disruption of our manufacturing facility could have a material adverse effect on our business, financial condition and results of operations.***

We maintain a manufacturing facility in the PRC for producing most of our products, which allows us to utilize our materials and processes, protect our intellectual property and develop the technology for manufacturing. A prolonged disruption or material malfunction of, interruption in or the loss of operations at our manufacturing facility or the failure to maintain a sufficient labor force at such facility could require us to rely on third parties for our manufacturing needs,

which generally increases our manufacturing costs and decreases our profit margins and could limit our capacity to meet customer demand and delay new product development until a replacement facility and equipment, if necessary, were secured. The replacement of the manufacturing facility could take an extended amount of time before manufacturing operations could restart. The potential delays and costs resulting from these steps could have a material adverse effect on our business, financial condition and results of operations.

***If we are unable to manufacture our products efficiently, our operating results could suffer.***

We must continuously review and improve our manufacturing processes in an effort to maintain satisfactory manufacturing yields and product performance, to lower our costs and to otherwise remain competitive. As we manufacture more complex products, the risk of encountering delays or difficulties increases. The start-up costs associated with implementing new manufacturing technologies, methods and processes, including the purchase of new equipment, and any resulting manufacturing delays and inefficiencies, could negatively impact our results of operations.

If we need to add manufacturing capacity, an expansion of our existing manufacturing facility or establishment of a new facility could be subject to factory audits by our customers. Any delays or unexpected costs resulting from this audit process could adversely affect our net product sales and results of operations. In addition, we cannot be certain that we would be able to increase our manufacturing capacity on a timely basis or meet the standards of any applicable factory audits.

***We depend on third parties to design and manufacture custom components for some of our products.***

Significant customized components, such as ASICs, that are used in HyperCloud and some of our other products are designed and manufactured by third parties. The ability and willingness of such third parties to perform in accordance with their agreements with us is largely outside of our control. If one or more of our design or manufacturing partners fails to perform its obligations in a timely manner or at satisfactory quality levels, our ability to bring products to market or deliver products to our customers, as well as our reputation, could suffer. In the event of any such failures, we may have no readily available alternative source of supply for such products, since, in our experience, the lead time needed to establish a relationship with a new design and/or manufacturing partner is at least 12 months, and the estimated time for our OEM customers to re-qualify our product with components from a new vendor ranges from four to nine months. If we need to replace one of our manufacturers, we may not be able to redesign, or cause to have redesigned, our customized components to be manufactured by the new manufacturer in a timely manner, and we could infringe on the intellectual property of our current design or manufacturing partner when we redesign the custom components or cause such components to be redesigned by the new manufacturer. A manufacturing disruption experienced by our manufacturing partners, the failure of our manufacturing partners to dedicate adequate resources to the production of our products, the financial instability of our manufacturing or design partners, or any other failure of our design or manufacturing partners to perform according to their agreements with us would have a material adverse effect on our business, financial condition and results of operations.

We have many other risks due to our dependence on third-party manufacturers, including: reduced control over delivery schedules, quality, manufacturing yields and cost; the potential lack of adequate capacity during periods of excess demand; limited warranties on products supplied to us; and potential misappropriation of our intellectual property. We are dependent on our manufacturing partners to manufacture products with acceptable quality and manufacturing yields, to deliver those products to us on a timely basis and to allocate a portion of their manufacturing capacity sufficient to meet our needs. Although our products are designed using the process design rules of the particular manufacturers, our manufacturing partners may not be able to achieve or maintain acceptable yields or deliver sufficient quantities of components on a timely basis or at an acceptable cost. Additionally, our manufacturing partners may not continue to devote adequate resources to produce our products or continue to advance the process design technologies on which the qualification and manufacturing of our products are based.

***If our products do not meet the quality standards of our customers, we may be forced to stop shipments of products until the quality issues are resolved.***

Our customers require our products to meet strict quality standards. Should our products not meet such standards, our customers may discontinue purchases from us until we are able to resolve the quality issues that are causing us to not meet the standards. Such “quality holds” could have a significant adverse impact on our revenues and operating results.

***If our products are defective or are used in defective systems, we may be subject to warranty, product recalls or product liability claims.***

If our products are defectively manufactured, contain defective components or are used in defective or malfunctioning systems, we could be subject to warranty and product liability claims and product recalls, safety alerts or advisory notices. While we have product liability insurance coverage, it may not be adequate to satisfy claims made against us. We also may be unable to obtain insurance in the future at satisfactory rates or in adequate amounts.

Although we generally attempt to contractually limit our exposure to incidental and consequential damages, if these contract provisions are not enforced or are unenforceable or if liabilities arise that are not effectively limited, we could incur substantial costs in defending or settling product liability claims.

Warranty and product liability claims or product recalls, regardless of their ultimate outcome, could have an adverse effect on our business, financial condition and reputation, and on our ability to attract and retain customers. In addition, we may determine that it is in our best interest to accept product returns in circumstances where we are not contractually obligated to do so in order to maintain good relations with our customers. Accepting product returns may negatively impact our operating results.

***We may become involved in non-patent related litigation and administrative proceedings that may materially adversely affect us.***

From time to time, we may become involved in various legal proceedings relating to matters incidental to the ordinary course of our business, including commercial, product liability, employment, class action, whistleblower and other litigation and claims, and governmental and other regulatory investigations and proceedings. Such matters can be time-consuming, divert management’s attention and resources and cause us to incur significant expenses. Furthermore, because litigation is inherently unpredictable, the results of these actions could have a material adverse effect on our business, results of operations and financial condition.

***If we are required to obtain licenses to use third-party intellectual property and we fail to do so, our business could be harmed.***

Although some of the components used in our final products contain the intellectual property of third parties, we believe that our suppliers bear the sole responsibility to obtain any rights and licenses to such third-party intellectual property. While we have no knowledge that any third-party licensor disputes our belief, we cannot assure you that disputes will not arise in the future. The operation of our business and our ability to compete successfully depends significantly on our continued operation without claims of infringement or demands resulting from such claims, including demands for payments of money in the form of, for example, ongoing licensing fees.

We are also developing new products that we intend to launch in new customer markets. Similar to our current products, we may use components in these new products that contain the intellectual property of third parties. While we plan to exercise precautions to avoid infringing on the intellectual property rights of third parties, disputes regarding intellectual property ownership could arise.

If it is determined that we are required to obtain inbound licenses and we fail to obtain licenses, or if such licenses are not available on economically feasible terms, then we would be forced to redesign the applicable product without the infringing component, which may be costly or not possible, or we may be forced to cease all manufacture

and sales of the applicable product. Any such outcome would harm our business, operating results and financial condition.

***The flash memory market is constantly evolving and competitive, and we may not have rights to manufacture and sell certain types of products utilizing emerging flash formats, or we may be required to pay a royalty to sell products utilizing these formats.***

The flash-based storage market is constantly undergoing rapid technological change and evolving industry standards. Many consumer devices, such as digital cameras, PDAs and smartphones, are transitioning to emerging flash memory formats, such as the Memory Stick and xD Picture Card formats, which we do not currently manufacture and do not have rights to manufacture. Although we do not currently serve the consumer flash market, it is possible that certain OEMs may choose to adopt these higher-volume, lower-cost formats. This could result in a decline in demand, on a relative basis, for other products that we manufacture, such as CompactFlash, SD and embedded USB drives. If we decide to manufacture flash memory products utilizing emerging formats, we would be required to secure licenses to give us the right to manufacture such products that may not be available at reasonable rates or at all. If we are not able to supply flash card formats at competitive prices or if we were to have product shortages, our net product sales could be adversely impacted and our customers would likely cancel orders or seek other suppliers to replace us.

***Our indemnification obligations for the infringement by our products of the intellectual property rights of others could require us to pay substantial damages.***

As is common in our industry, we have in effect a number of agreements in which we have agreed to defend, indemnify and hold harmless our customers and suppliers from damages and costs that may arise from the infringement by our products of third-party patents, trademarks or other proprietary rights. The scope of such indemnity varies, but may, in some instances, include indemnification for damages and expenses, including attorneys' fees. Our insurance does not cover intellectual property infringement. The term of these indemnification agreements is generally perpetual after execution of the applicable agreement. The maximum potential amount of future payments we could be required to make under these indemnification agreements is unlimited. We may periodically have to respond to claims and litigate these types of indemnification obligations. Although our suppliers may bear responsibility for the intellectual property inherent in the components they sell to us, they may lack the financial ability to stand behind such indemnities. Additionally, it may be costly to enforce any indemnifications that they have granted to us. Accordingly, any indemnification claims by customers could require us to incur significant legal fees and could potentially result in the payment of substantial damages, either of which could result in a material adverse effect on our business and results of operations.

***We depend on a few key employees, and if we lose the services of any of these employees or are unable to attract and retain other qualified personnel, our business could be harmed.***

To date, we have been highly dependent on the experience, relationships and technical knowledge of certain key employees. We believe that our future success will be dependent on our ability to retain the services of these key employees, develop their successors, reduce our reliance on them, and properly manage the transition of their roles should departures occur. The loss of these key employees or their inability to provide their services could delay the development and introduction of, and negatively impact our ability to sell, our products and otherwise harm our business. We do not have employment agreements with any of these key employees other than Chun K. Hong, our President, Chief Executive Officer and Chairman of the Board. We maintain "Key Man" life insurance on Chun K. Hong; however, we do not carry "Key Man" life insurance on any of our other key employees.

Our future success also depends on our ability to attract, retain and motivate highly skilled engineering, manufacturing, and other technical and sales personnel. Competition for experienced personnel is intense. We may not be successful in attracting new engineers or other technical personnel or in retaining or motivating our existing personnel. If we are unable to hire and retain engineers with the skills necessary to keep pace with the evolving technologies in our markets, our ability to continue to provide our current products and to develop new or enhanced products will be negatively impacted, which would harm our business. In addition, a general shortage of experienced engineers could lead to increased recruiting, relocation and compensation costs for such engineers, which may exceed

our expectations and resources. These increased costs may make hiring new engineers difficult or may increase our operating expenses.

Historically, a significant portion of our workforce has consisted of contract personnel. We invest considerable time and expense in training these contract employees. We may experience high turnover rates in our contract employee workforce, which may require us to expend additional resources in the future. If we convert any of these contract employees into permanent employees, we may have to pay finder's fees to the contract agency.

***We rely on third-party manufacturers' representatives to sell our products and the failure of these manufacturers' representatives to perform as expected could reduce our sales.***

We sell some of our products to customers through manufacturers' representatives. We are unable to predict the extent to which our manufacturers' representatives will be successful in marketing and selling our products. Moreover, many of our manufacturers' representatives also market and sell other, potentially competing products. Our representatives may terminate their relationships with us at any time. Our future performance will also depend, in part, on our ability to attract additional manufacturers' representatives that will be able to market and support our products effectively, especially in markets in which we have not previously distributed our products. If we cannot retain our current manufacturers' representatives or recruit additional or replacement manufacturers' representatives, our sales and operating results will be harmed.

***Economic, political and other risks associated with international sales and operations expose us to significant risks.***

Part of our growth strategy involves making sales to foreign corporations and delivering our products to facilities located in foreign countries. To facilitate this process and to meet the long-term projected demand for our products, we have established a manufacturing facility in the PRC, which performs most of our worldwide manufacturing production. Selling and manufacturing in foreign countries subjects us to additional risks not present with our domestic operations, as we are operating in business and regulatory environments in which we have limited previous experience. Further, the geographic distance from our headquarters in Irvine, California, compounds the difficulties of running a manufacturing operation in the PRC. For instance, we may not be able to maintain the desired amount of control over production capacity and timing, inventory levels, product quality, delivery schedules, manufacturing yields and costs. Moreover, we will need to continue to overcome language and cultural barriers to effectively conduct our operations in these environments. Our failure to meet applicable regulatory requirements or overcome cultural barriers could result in production delays and increased turn-around times, which would adversely affect our business. In addition, changes to the labor laws of the PRC could increase the cost of employing the local workforce. The increased industrialization of the PRC, as well as general economic and political conditions in the PRC, could also increase the cost of local labor. Any of these factors could negatively impact the cost savings we experience from locating our manufacturing facility in the PRC. Additionally, our management has limited experience creating or overseeing foreign operations, and the ongoing management of our PRC facility may require our management team to divert substantial amounts of their time and attention, particularly if we encounter operational difficulties or manufacturing disruptions at our PRC facility.

In the future, some of our net sales may be denominated in Chinese Renminbi ("RMB"). The Chinese government controls the procedures by which RMB is converted into other currencies, and conversion of RMB generally requires government consent. As a result, RMB may not be freely convertible into other currencies at all times. If the Chinese government institutes changes in currency conversion procedures, or imposes additional restrictions on currency conversion, those actions may negatively impact our operations and could reduce our operating results. In addition, fluctuations in the exchange rate between RMB and U.S. dollars may adversely affect our expenses and results of operations, as well as the value of our assets and liabilities. These fluctuations may also adversely affect the comparability of our period-to-period results. If we decide to declare dividends and repatriate funds from our Chinese operations, we will be required to comply with the procedures and regulations of applicable Chinese law. Any changes to these procedures and regulations, or our failure to comply with these procedures and regulations, could adversely affect our financial condition. If we are able to make dividends and repatriate funds from our Chinese operations, these dividends would be subject to U.S. corporate income tax.

In addition, international turmoil and the threat of future terrorist attacks, both domestically and internationally, have contributed to an uncertain political and economic climate, both in the United States and globally, and have negatively impacted the worldwide economy. The economies of the PRC and other countries in which we make sales have been highly volatile in the recent past, resulting in significant fluctuations in local currencies and other instabilities. These conditions could continue or worsen, which could adversely affect our foreign operations and some of our customers or suppliers and our performance.

Our international sales are subject to a number of additional risks, including regulatory risks, tariffs and other trade barriers, timing and availability of export licenses, political and economic instability, difficulties in accounts receivable collections, difficulties in managing distributors, lack of a significant local sales presence, difficulties in obtaining governmental approvals, compliance with a wide variety of complex foreign laws and treaties and potentially adverse tax consequences. In addition, the United States or foreign countries may implement quotas, duties, taxes or other charges or restrictions upon the importation or exportation of our products, leading to a reduction in sales and profitability in that country.

***Our operations could be disrupted by power outages, natural disasters or other factors.***

Due to the geographic concentration of our manufacturing operations in our PRC facility and the operations of certain of our suppliers, a disruption resulting from equipment failure, power failures, quality control issues, human error, government intervention or natural disasters, including earthquakes and floods, could interrupt or interfere with our manufacturing operations and consequently harm our business, financial condition and results of operations. Such disruptions would cause significant delays in shipments of our products and adversely affect our operating results. In July 2014, our PRC facility suffered water damage as a result of heavy rain and floods, which forced us to temporarily halt manufacturing at the facility while necessary repairs or replacements were made to the facility and to certain of our manufacturing equipment. This incident caused us to incur additional expenses as we shifted our manufacturing activities to a third-party manufacturing facility in the PRC to enable us to mitigate the disruption in shipments to our customers. While we believe we have contained the disruptions we expect that our relationships with our key customers could be materially harmed if we incur additional manufacturing disruptions in the future. While we were able to favorably resolve our claim with our insurance carrier, similar events could occur in the future and, in such event, we may not be able to secure alternative manufacturing capabilities if manufacturing at our PRC facility is disrupted.

***Difficulties with our global information technology systems and/or unauthorized access to such systems, could harm our business.***

Any failure or malfunctioning of our global information technology system, errors or misuse by system users, difficulties in migrating standalone systems to our centralized systems, or inadequacy of the system in addressing the needs of our operations could disrupt our ability to timely and accurately manufacture and ship products, which could have a material adverse effect on our business, financial condition and results of operations. Any such failure, errors, misuse or inadequacy could also disrupt our ability to timely and accurately process, report and evaluate key operations metrics and key components of our results of operations, financial position and cash flows. Any such disruptions would likely divert our management and key employees' attention away from other business matters. Any disruptions or difficulties that may occur in connection with our global information technology system could also adversely affect our ability to complete important business process, such as maintenance of our disclosure controls and procedures and evaluation of our internal control over financial reporting and attestation activities pursuant to Section 404 of the Sarbanes-Oxley Act of 2002.

In connection with our daily business transactions, we store data about our business, including certain customer data, on our global information technology systems. While our systems are designed with security measures to prevent unauthorized access, third parties may gain unauthorized access to our systems. This unauthorized access could be the result of intentional misconduct by computer hackers, employee error, employee malfeasance or other causes. Additionally, third parties may attempt to fraudulently induce employees or customers into disclosing sensitive information such as user names, passwords or other information in order to gain access to our information technology system for the purpose of sabotage or to access our data, including our and our customers' intellectual property and other confidential business information. Because the techniques used to obtain unauthorized access to information technology

systems evolve frequently and generally are not recognized until successful, we may be unable to anticipate these techniques or to implement adequate preventative measures. Any security breach could result in disruption to our business, misappropriation or loss of data, loss of confidence in us by our customers, damage to our reputation, legal liability and a negative impact on our sales.

***Our failure to comply with environmental laws and regulations could subject us to significant fines and liabilities or cause us to incur significant costs.***

We are subject to various and frequently changing U.S. federal, state and local and foreign governmental laws and regulations relating to the protection of the environment, including those governing the discharge of pollutants into the air and water, the management and disposal of hazardous substances and wastes, the cleanup of contaminated sites and the maintenance of a safe workplace. In particular, some of our manufacturing processes may require us to handle and dispose of hazardous materials from time to time. For example, in the past our manufacturing operations have used lead-based solder in the assembly of our products. Today, we use lead-free soldering technologies in our manufacturing processes, as this is required for products entering the European Union. We could incur substantial costs, including clean-up costs, civil or criminal fines or sanctions and third-party claims for property damage or personal injury as a result of violations of, or noncompliance with, environmental laws and regulations. Although we have not incurred significant costs to date to comply with these laws and regulations, new laws or changes to current laws and regulations to make them more stringent could require us to incur significant costs to remain in compliance.

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

In August 2012, the SEC adopted a rule requiring disclosure of specified minerals, known as conflict materials, that are necessary to the functionality or production of products manufactured or contracted to be manufactured by public companies. The rule requires companies to verify and disclose whether or not such minerals originate from the Democratic Republic of Congo or an adjoining country. To comply with this rule, we are required to conduct a reasonable country of origin inquiry each year and, depending on the results of that inquiry, we may be required to exercise due diligence on the source and chain of custody of conflict minerals contained in our products. Such due diligence must conform to a nationally or internationally recognized due diligence framework. We are required to file a disclosure report with the SEC in May of each year relating to the preceding calendar year.

The due diligence activities required to determine the source and chain of custody of minerals contained in our products are time consuming and may result in significant costs. Due to the size and complexity of our supply chain, we face significant challenges in verifying the origins of the minerals used in our products. Further, this rule could affect the availability in sufficient quantities and at competitive prices of certain minerals used in the manufacture of our products, including tantalum, tin, gold and tungsten. There may be only limited number of sources of “conflict-free” minerals, which could result in increased material and component costs, as well as additional costs associated with potential changes to our products, processes or sources of supply.

If we are unable to sufficiently verify the origin of the minerals used in our products through the due diligence measures that we implement, or if we are unable to obtain an audit report each year that concludes that our due diligence measures are in conformity with the criteria set forth in the relevant due diligence framework, our reputation could be harmed. In addition, we may not be able to satisfy customers who require that our products be certified as “conflict-free,” which could place us at a competitive disadvantage.

***Our internal control over financial reporting may not be effective, which could have a significant and adverse effect on our business.***

Section 404 of the Sarbanes-Oxley Act of 2002 and the related rules and regulations of the SEC, which we collectively refer to as Section 404, require us to evaluate our internal controls over financial reporting to allow management to report on these internal control as of the end of each year. Effective internal controls are necessary for us to produce reliable financial reports and are important in our effort to prevent financial fraud. In the course of our Section 404 evaluations, we may identify conditions that may result in significant deficiencies or material weaknesses

and we may conclude that enhancements, modifications or changes to our internal controls are necessary or desirable. Implementing any such changes would divert the attention of our management, could involve significant costs, and may negatively impact our results of operations.

We note that there are inherent limitations on the effectiveness of internal controls, as they cannot prevent collusion, management override or failure of human judgment. If we fail to maintain an effective system of internal controls or if management or our independent registered public accounting firm were to discover material weaknesses in our internal controls, we may be unable to produce reliable financial reports or prevent fraud, which could harm our financial condition and results of operations, result in a loss of investor confidence and negatively impact our stock price.

***If we do not effectively manage any future growth we may experience, our resources, systems and controls may be strained and our results of operations may suffer.***

Any future growth we may experience could strain our resources, management, information and telecommunication systems and operational and financial controls. To manage future growth effectively, including any expansion of volume in our manufacturing facility in the PRC, we must be able to improve and expand our systems and controls. We may not be able to do this in a timely or cost-effective manner, and our current systems and controls may not be adequate to support our future operations. In addition, our officers have relatively limited experience in managing a rapidly growing business. As a result, they may not be able to provide the guidance necessary to manage future growth or maintain future market position. Any failure to manage any growth we may experience or improve or expand our existing systems and controls, or unexpected difficulties in doing so, could harm our business.

***If we acquire businesses or technologies or pursue other strategic transactions in the future, these transactions could disrupt our business and harm our operating results and financial condition.***

We will evaluate opportunities to acquire businesses or technologies or pursue other strategic transactions, including collaboration or joint development arrangements such as our JDLA with Samsung that might complement our current product offerings or enhance our intellectual property portfolio or technical capabilities. We have no experience in acquiring other businesses or technologies. Acquisitions and other strategic transactions entail a number of risks that could adversely affect our business and operating results, including, among others:

- difficulties in integrating the operations, technologies or products of acquired companies or working with third parties with which we may partner on joint development or collaboration relationships;
- the diversion of management's time and attention from the normal daily operations of the business;
- insufficient increases in revenues to offset increased expenses associated with the acquisitions or strategic transaction;
- difficulties retaining business relationships with suppliers and customers;
- overestimation of potential synergies or a delay in realizing those synergies;
- entering markets in which we have no or limited experience and in which competitors have stronger market positions; and
- the potential loss of key employees of our Company or any acquired companies.

Future acquisitions or other strategic transactions also could cause us to incur debt or be subject to contingent liabilities. In addition, acquisitions could cause us to issue equity or debt securities that could dilute the ownership interests of our existing stockholders or increase our leverage relative to our earnings or to our equity capitalization. Furthermore, acquisitions or other strategic transactions may result in material charges or adverse tax consequences, substantial depreciation, deferred compensation charges, in-process research and development charges, the amortization

of amounts related to deferred stock-based compensation expense and identifiable purchased intangible assets or impairment of goodwill, any or all of which could negatively affect our results of operations.

### **Risks Related to Our Common Stock**

***Our results of operations fluctuate significantly and are difficult to predict, and any failure to meet investor or analyst expectations of our performance could cause the price of our common stock to decline.***

Our operating results have varied significantly in the past and will continue to fluctuate from quarter-to-quarter or year-to-year in the future due to a variety of factors, many of which are beyond our control. Factors relating to our business that may contribute to these quarterly and annual fluctuations include, among other, those described in the risk factors in this Item 1A. Due to the various factors described herein and others, the results of any prior quarterly or annual periods should not be relied upon as an indication of our future operating performance. If our quarterly results of operations fall below the expectations of securities analysts or investors, the price of our common stock could decline substantially. As a result of the significant fluctuations of our operating results in prior periods, period-to-period comparisons of our operating results may not be meaningful and investors in our common stock should not rely on the results of any one quarter as an indicator of future performance.

***Our principal stockholders have significant voting power and may take actions that may not be in the best interest of our other stockholders.***

As of October 31, 2016, approximately 9.3% of our outstanding common stock was held by affiliates, including 8.3% held by Chun K. Hong, our Chief Executive Officer and Chairman of our board of directors. As a result, Mr. Hong has the ability to exert substantial influence over all matters requiring approval by our stockholders, including the election and removal of directors and any proposed merger, consolidation or sale of all or substantially all of our assets and other corporate transactions. This concentration of control could be disadvantageous to other stockholders with interests different from those of Mr. Hong.

***Anti-takeover provisions under our charter documents and Delaware law could delay or prevent a change of control and could also limit the market price of our stock.***

Our certificate of incorporation and bylaws contain provisions that could delay or prevent a change of control of our company or changes in our board of directors that our stockholders might consider favorable. In addition, these provisions could limit the price that investors would be willing to pay in the future for shares of our common stock. The following are examples of provisions which are included in our certificate of incorporation and bylaws, each as amended:

- our board of directors is authorized, without prior stockholder approval, to designate and issue preferred stock, commonly referred to as “blank check” preferred stock, with rights senior to those of our common stock;
- stockholder action by written consent is prohibited;
- nominations for election to our board of directors and the submission of matters to be acted upon by stockholders at a meeting are subject to advance notice requirements; and
- our board of directors is expressly authorized to make, alter or repeal our bylaws.

In addition, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which may prohibit certain business combinations with stockholders owning 15% or more of our outstanding voting stock. These and other provisions in our certificate of incorporation and bylaws and of Delaware law could make it more difficult for stockholders or potential acquirers to obtain control of our board of directors or initiate actions that are opposed by the then-current board of directors, including delaying or impeding a merger, tender offer, or proxy contest or other change of control transaction involving our company. Any delay or prevention of a change of control transaction

or changes in our board of directors could prevent the consummation of a transaction in which our stockholders could receive a substantial premium over the then-current market price for their shares.

***The price of and volume in trading of our common stock has and may continue to fluctuate significantly.***

Our common stock has been publicly traded since November 2006. The price of our common stock and the trading volume of our shares are volatile and have in the past fluctuated significantly. This volatility could continue and an active trading market in our common stock may never develop or be sustained. The market price at which our common stock trades may be influenced by many factors, including, among others, the following:

- our operating and financial performance and prospects, including our ability to achieve and sustain profitability in the future;
- the financial projections we may provide to the public, any changes to these projections or our failure to meet these projections;
- investor perception of us and the industry in which we operate;
- the availability and level of research coverage of and market-making in our common stock;
- changes in earnings estimates or buy/sell recommendations by analysts;
- results of litigation
- our announcement of significant partnership arrangements or legal proceedings, including patent infringement actions;
- sales of newly issued common stock or other securities, associated with our shelf registration statement or otherwise, or the perception that such sales may occur;
- general financial and other market conditions; and
- changing and recently volatile domestic and international economic conditions.

In addition, shares of our common stock and the public stock markets in general have experienced, and may continue to experience, extreme price and trading volume volatility. These fluctuations may adversely affect the market price of our common stock and a stockholder's ability to sell its shares into the market at the desired time or at the desired price.

In 2007, following a drop in the market price of our common stock, securities litigation was initiated against us. Given the historic volatility of our industry, we may become engaged in this type of litigation in the future. Securities litigation, like other types of litigation that are discussed above, is expensive and time-consuming and could subject us to unfavorable results.

***We do not currently intend to pay dividends on our common stock, and any return to investors is expected to come, if at all, only from potential increases in the price of our common stock.***

We intend to use all available funds to finance our operations. Accordingly, while payment of dividends rests within the discretion of our board of directors, no cash dividends on our common shares have been declared or paid by us in the past and we have no intention of paying any such dividends in the foreseeable future. Any return to investors is expected to come, if at all, only from potential increases in the price of our common stock.

***We may not be able to maintain our NASDAQ listing.***

During 2015 and into early 2016, we experienced periods in which we were not compliant with the continued listing standards of the NASDAQ Global Market. As a result of a compliance process, we transferred the listing of our common stock from the NASDAQ Global Market to the NASDAQ Capital Market. On February 10, 2016, we received a compliance letter from The NASDAQ Stock Market notifying us that we had regained compliance with the applicable requirements for continued listing on The NASDAQ Stock Market. Our common stock continues to trade on the NASDAQ Capital Market under the symbol “NLST.” Notwithstanding our current compliance, we may not be able to continue to comply with the applicable continued listing standards of The NASDAQ Capital Market. If we are delisted from the NASDAQ Capital Market, the liquidity of our common stock may be impaired, which could reduce the trading value of our common stock.

**Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.**

On August 29, 2016, a warrant holder exercised a warrant to acquire 648,351 shares of our common stock in full on a cashless basis, pursuant to which the 648,351 shares were exercised in exchange for our issuance of an aggregate of 465,555 shares of our common stock. The warrant was originally issued in July 2013 to an affiliate of our former lender, Fortress Credit Opportunities I LP. Neither the warrant nor the common stock issued upon exercise of the warrant has been registered under the Securities Act of 1933, as amended (the “Securities Act”). The securities were sold and issued in reliance on the exemption from the registration requirements of the Securities Act afforded by Section 4(a)(2) thereof. In determining that the issuance of the securities qualified for exemption under Section 4(a)(2), we relied on the following facts: we did not use general solicitation or advertising to market the securities; the warrant holder represented to us that it was an accredited investor (as that term is defined in Rule 501 of Regulation D under the Securities Act) and that it was acquiring the securities with the present intention of holding them for purposes of investment and not with a view to their public resale or distribution; and the securities were issued as restricted securities.

**Item 6. Exhibits.**

The information required by this Item 6 is set forth on the Exhibit Index that immediately follows the signature page to this report and is incorporated herein by reference.



**EXHIBIT INDEX**

<b>Exhibit No.</b>	<b>Description</b>
3.1	Restated Certificate of Incorporation of Netlist, Inc. (incorporated by reference to exhibit 3.1 of the registration statement on Form S-1 of the registrant (No. 333-136735) filed with the SEC on October 23, 2006).
3.2	Amended and Restated Bylaws of Netlist, Inc. (incorporated by reference to exhibit number 3.1 of the registrant's Current Report on Form 8-K filed with the SEC on December 20, 2012).
31.1+	Certification of Chief Executive Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Securities and Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2+	Certification of Chief Financial Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Securities and Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32*	Certification by Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS+	XBRL Instance Document
101.SCH+	XBRL Taxonomy Extension Schema Document
101.CAL+	XBRL Taxonomy Extension Calculation Linkbase Document
101.LAB+	XBRL Taxonomy Extension Label Linkbase Document
101.PRE+	XBRL Taxonomy Extension Presentation Linkbase Document
101.DEF+	XBRL Taxonomy Extension Definition Linkbase Document

---

+ Filed herewith.

\* Furnished herewith.

**CERTIFICATION PURSUANT TO RULE 13A-14(A) AND RULE 15D-14(A) OF THE SECURITIES EXCHANGE  
ACT AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Chun K. Hong, certify that:

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

November 15, 2016

/s/ Chun K. Hong  
Chun K. Hong  
President, Chief Executive Officer and Chairman of the Board  
(Principal Executive Officer)

---

**CERTIFICATION PURSUANT TO RULE 13A-14(A) AND RULE 15D-14(A) OF THE SECURITIES EXCHANGE  
ACT AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Gail M. Sasaki, certify that:

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

November 15, 2016

/s/ Gail M. Sasaki  
Gail M. Sasaki  
Vice President and Chief Financial Officer  
(Principal Financial Officer)

---

**CERTIFICATIONS PURSUANT TO 18 U.S.C. SECTION 1350  
AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report on Form 10-Q of Netlist, Inc., a Delaware corporation (“Netlist”) for the quarter ended October 1, 2016 (the “Report”), Chun K. Hong, president, chief executive officer and chairman of the board of Netlist, and Gail M. Sasaki, vice president and chief financial officer of Netlist, each hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to his or her knowledge:

- (1) the Report fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of Netlist, Inc.

November 15, 2016

/s/ Chun K. Hong  
Chun K. Hong  
President, Chief Executive Officer and Chairman of the Board  
(Principal Executive Officer)

November 15, 2016

/s/ Gail M. Sasaki  
Gail M. Sasaki  
Vice President and Chief Financial Officer  
(Principal Financial Officer)

---