

SemiLEDs Corp  
Form 10-Q  
April 13, 2016  
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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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**FORM 10-Q**

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

**For the quarterly period ended February 29, 2016**

**or**

**o 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: 001-34992**

**SemiLEDs Corporation**

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(Exact name of registrant as specified in its charter)

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

**20-2735523**  
(I.R.S. Employer  
Identification Number)

**3F, No. 11 Ke Jung Rd., Chu-Nan Site,  
Hsinchu Science Park, Chu-Nan 350,  
Miao-Li County, Taiwan, R.O.C.**  
(Address of principal executive offices)

**350**  
(Zip Code)

**+886-37-586788**  
(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 (§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 definitions 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   
(Do not check if a smaller reporting company)

Smaller reporting company

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

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date: 29,068,685 shares of common stock, par value \$0.0000056 per share, outstanding as of April 7, 2016.



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**SEMILEDS CORPORATION**

**FORM 10-Q for the Quarter Ended February 29, 2016**

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Table of Contents**PART I FINANCIAL INFORMATION****Item 1. Financial Statements****SEMILEDs CORPORATION AND SUBSIDIARIES****Unaudited Condensed Consolidated Balance Sheets****(In thousands of U.S. dollars and shares, except par value)**

	February 29, 2016	August 31, 2015
<b>ASSETS</b>		
<b>CURRENT ASSETS:</b>		
Cash and cash equivalents	\$ 5,306	\$ 4,808
Accounts receivable (including related parties), net of allowance for doubtful accounts of \$566 and \$586 as of February 29, 2016 and August 31, 2015, respectively	1,185	2,049
Inventories	4,964	5,924
Prepaid expenses and other current assets	1,025	891
Total current assets	12,480	13,672
Property, plant and equipment, net	17,962	20,779
Intangible assets, net	1,262	1,353
Goodwill	53	54
Investments in unconsolidated entities	1,982	2,014
Other assets	607	648
<b>TOTAL ASSETS</b>	<b>\$ 34,346</b>	<b>\$ 38,520</b>
<b>LIABILITIES AND EQUITY</b>		
<b>CURRENT LIABILITIES:</b>		
Current installments of long-term debt	\$ 509	\$ 1,068
Accounts payable	1,528	1,650
Accrued expenses and other current liabilities	3,506	3,597
Total current liabilities	5,543	6,315
Long-term debt, excluding current installments	2,627	2,839
Other liability	2,955	
Total liabilities	11,125	9,154
Commitments and contingencies (Note 5)		
<b>EQUITY:</b>		
SemiLEDs stockholders' equity		
Common stock, \$0.000056 par value 75,000 shares authorized; 29,069 shares and 29,052 shares issued and outstanding as of February 29, 2016 and August 31, 2015, respectively		
Additional paid-in capital	172,317	172,117
Accumulated other comprehensive income	2,596	3,083
Accumulated deficit	(151,755)	(145,904)
Total SemiLEDs stockholders' equity	23,158	29,296
Noncontrolling interests	63	70
Total equity	23,221	29,366
<b>TOTAL LIABILITIES AND EQUITY</b>	<b>\$ 34,346</b>	<b>\$ 38,520</b>

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See notes to unaudited condensed consolidated financial statements.

Table of Contents**SEMILEDs CORPORATION AND SUBSIDIARIES****Unaudited Condensed Consolidated Statements of Operations****(In thousands of U.S. dollars and shares, except per share data)**

	Three Months Ended		Six Months Ended	
	February 29, 2016	February 28, 2015	February 29, 2016	February 28, 2015
Revenues, net	\$ 2,916	\$ 4,566	\$ 5,879	\$ 7,494
Cost of revenues	3,711	5,217	8,118	9,688
Gross loss	(795)	(651)	(2,239)	(2,194)
Operating expenses:				
Research and development	622	612	1,223	1,360
Selling, general and administrative	1,203	1,876	2,290	4,027
Employee termination benefits	148		148	
Loss (gain) on disposals of long-lived assets, net	2	(287)	2	(287)
Total operating expenses	1,975	2,201	3,663	5,100
Loss from operations	(2,770)	(2,852)	(5,902)	(7,294)
Other income (expenses):				
Equity in gain (loss) from unconsolidated entities	8	(21)		(56)
Interest expenses, net	(13)	(24)	(29)	(48)
Other income, net	27	29	53	59
Foreign currency transaction gain (loss), net	203	(36)	18	64
Total other income (expenses), net	225	(52)	42	19
Loss before income taxes	(2,545)	(2,904)	(5,860)	(7,275)
Income tax expense		1		1
Net loss	(2,545)	(2,905)	(5,860)	(7,276)
Less: Net loss attributable to noncontrolling interests	(6)	(3)	(9)	(43)
Net loss attributable to SemiLEDs stockholders	\$ (2,539)	\$ (2,902)	\$ (5,851)	\$ (7,233)
Net loss per share attributable to SemiLEDs stockholders:				
Basic and diluted	\$ (0.09)	\$ (0.10)	\$ (0.20)	\$ (0.25)
Shares used in computing net loss per share attributable to SemiLEDs stockholders:				
Basic and diluted	29,084	28,483	29,070	28,465

See notes to unaudited condensed consolidated financial statements.



Table of Contents**SEMILEDs CORPORATION AND SUBSIDIARIES****Unaudited Condensed Consolidated Statements of Comprehensive Loss****(In thousands of U.S. dollars)**

	<b>Three Months Ended</b>		<b>Six Months Ended</b>	
	<b>February 29, 2016</b>	<b>February 28, 2015</b>	<b>February 29, 2016</b>	<b>February 28, 2015</b>
Net loss	\$ (2,545)	\$ (2,905)	\$ (5,860)	\$ (7,276)
Other comprehensive loss, net of tax:				
Foreign currency translation adjustments, net of tax of \$0 for all periods presented	(421)	(489)	(485)	(1,645)
Comprehensive loss	\$ (2,966)	\$ (3,394)	\$ (6,345)	\$ (8,921)
Comprehensive loss attributable to noncontrolling interests	\$ (4)	\$ (2)	\$ (7)	\$ (41)
Comprehensive loss attributable to SemiLEDs stockholders	\$ (2,962)	\$ (3,392)	\$ (6,338)	\$ (8,880)

See notes to unaudited condensed consolidated financial statements.

Table of Contents**SEMILEDs CORPORATION AND SUBSIDIARIES****Unaudited Condensed Consolidated Statement of Changes in Equity****(In thousands of U.S. dollars and shares)**

	Common Stock		Additional Paid-in Capital	Accumulated Other Comprehensive Income (loss)	Accumulated Deficit	Total SemiLEDs		Total Equity
	Shares	Amount				Stockholders Equity	Non-Controlling Interests	
BALANCE September 1, 2015	29,052	\$	\$ 172,117	\$ 3,083	\$ (145,904)	\$ 29,296	\$ 70	\$ 29,366
Issuance of common stock under equity incentive plans	17							
Stock-based compensation			200			200		200
Comprehensive loss:								
Other comprehensive income (loss)				(487)		(487)	2	(485)
Net loss					(5,851)	(5,851)	(9)	(5,860)
BALANCE February 29, 2016	29,069	\$	\$ 172,317	\$ 2,596	\$ (151,755)	\$ 23,158	\$ 63	\$ 23,221

See notes to unaudited condensed consolidated financial statements.

Table of Contents**SEMILEDs CORPORATION AND SUBSIDIARIES****Unaudited Condensed Consolidated Statements of Cash Flows**

(In thousands of U.S. dollars)

	Six Months Ended	
	February 29, 2016	February 28, 2015
<b>CASH FLOWS FROM OPERATING ACTIVITIES:</b>		
Net loss	\$ (5,860)	\$ (7,276)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	2,601	2,509
Stock-based compensation expense	200	825
Provisions for inventory write-downs	565	386
Equity in loss from unconsolidated entities		56
Loss (gain) on disposals of long-lived assets, net	2	(287)
Changes in:		
Accounts receivable, net	827	(851)
Inventories	(48)	943
Prepaid expenses and other	(148)	291
Accounts payable	251	(294)
Accrued expenses and other current liabilities	34	(334)
Net cash used in operating activities	(1,576)	(4,032)
<b>CASH FLOWS FROM INVESTING ACTIVITIES:</b>		
Purchases of property, plant and equipment	(483)	(1,024)
Payments for development of intangible assets	(30)	(27)
Decrease in restricted cash		347
Other investing activities		8
Net cash used in investing activities	(513)	(696)
<b>CASH FLOWS FROM FINANCING ACTIVITIES:</b>		
Payments of long-term debt	(691)	(918)
Cash received for potential sale of building	3,000	
Net cash provided by (used in) financing activities	2,309	(918)
Effect of exchange rate changes on cash and cash equivalents	278	(269)
<b>NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS</b>	<b>498</b>	<b>(5,915)</b>
CASH AND CASH EQUIVALENTS Beginning of period	4,808	12,649
CASH AND CASH EQUIVALENTS End of period	\$ 5,306	\$ 6,734
<b>NONCASH INVESTING AND FINANCING ACTIVITIES:</b>		
Accrual related to property, plant and equipment	\$ 176	\$ 788
Proceeds from sale of property, plant and equipment included in other current liabilities	\$	\$ 884

See notes to unaudited condensed consolidated financial statements.

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**SEMILEDs CORPORATION AND SUBSIDIARIES**

**Notes to Unaudited Condensed Consolidated Financial Statements**

**1. Business**

SemiLEDs Corporation ( SemiLEDs or the parent company ) was incorporated in Delaware on January 4, 2005 and is a holding company for various wholly and majority owned subsidiaries. SemiLEDs and its subsidiaries (collectively, the Company ) develop, manufacture and sell high performance light emitting diodes ( LEDs ). The Company s core products are LED chips and LED components, as well as lighting products. LED components have become the most important part of the Company s business. A portion of the Company s business consists of the sale of contract manufactured LED products. The Company s customers are concentrated in a few select markets, including Taiwan, the United States and China.

As of February 29, 2016, SemiLEDs had seven wholly owned subsidiaries and a 93% equity interest in Ning Xiang Technology Co., Ltd. ( Ning Xiang ), a company engaged in the design, manufacture and sale of lighting fixtures and systems. The most significant of these consolidated subsidiaries is SemiLEDs Optoelectronics Co., Ltd. ( Taiwan SemiLEDs ) located in Hsinchu, Taiwan where a substantial portion of research, development, manufacturing, marketing and sales activities currently takes place and where a substantial portion of the assets is held and located. Taiwan SemiLEDs owns a 100% equity interest in Taiwan Bandaoti Zhaoming Co., Ltd., formerly known as Silicon Base Development, Inc., which is engaged in the research, development, manufacture, marketing and sale of LED components.

SemiLEDs common stock began trading on the NASDAQ Global Select Market under the symbol LEADS on December 8, 2010 and was transferred to the NASDAQ Capital Market effective November 5, 2015 where it continues to trade under the same symbol.

**2. Summary of Significant Accounting Policies**

**Basis of Presentation** The Company s unaudited interim condensed consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America ( U.S. GAAP ) and applicable provisions of the rules and regulations of the U.S. Securities and Exchange Commission ( SEC ) regarding interim financial reporting. Certain information and disclosures normally included in financial statements prepared in accordance with U.S. GAAP have been condensed or omitted as permitted by the rules and regulations of the SEC. Accordingly, these unaudited interim condensed consolidated financial statements should be read in conjunction with the consolidated financial statements and notes thereto contained in the Company s Annual Report on Form 10-K filed with the SEC on December 15, 2015. The unaudited condensed consolidated balance sheet as of August 31, 2015 included herein was derived from the audited consolidated financial statements as of that date.

The unaudited interim condensed consolidated financial statements have been prepared on the same basis as the audited consolidated financial statements and include all adjustments, consisting only of normal recurring adjustments, necessary for the fair presentation of the Company s consolidated balance sheet as of February 29, 2016, the statements of operations and comprehensive loss for the three and six months ended

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February 29, 2016 and February 28, 2015, the statement of changes in equity for the six months ended February 29, 2016, and the statements of cash flows for the six months ended February 29, 2016 and February 28, 2015. The results for the three or six months ended February 29, 2016 are not necessarily indicative of the results to be expected for the year ending August 31, 2016.

The accompanying unaudited interim condensed consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the satisfaction of liabilities in the normal course of business. The realization of assets and the satisfaction of liabilities in the normal course of business are dependent on, among other things, the Company's ability to operate profitably, to generate cash flows from operations, and to pursue financing arrangements to support its working capital requirements.

The Company has suffered losses from operations of \$13.3 million and \$24.8 million, gross losses on product sales of \$4.1 million and \$11.3 million, and net cash used in operating activities of \$4.5 million and \$15.7 million for the years ended August 31, 2015 and 2014, respectively. Loss from operations for the three and six months ended February 29, 2016 were \$2.8 million and \$5.9 million, respectively. Gross loss on product sales for the three and six months ended February 29, 2016 were \$0.8 million and \$2.2 million, respectively. Although the Company's cash and cash equivalents increased to \$5.3 million as of February 29, 2016 due to the receipt of the \$3 million initial installment of cash consideration for the potential sale of its headquarters building, net cash used in operating activities remains the primary factor driving the decrease in its cash position. These facts and conditions raise substantial doubt about the Company's ability to continue as a going concern. However, management believes that it has developed a liquidity plan, as summarized below, that, if executed successfully, should provide sufficient liquidity to meet the Company's obligations as they become due for a reasonable period of time, and allow the development of its core business.

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- Entered into an agreement in December 2015 with a strategic partner for the potential sale of the headquarters building located at Miao-Li, Taiwan. The total cash consideration for the potential sale is \$5.2 million to be paid in three installments, of which the initial installment of \$3 million was received on December 14, 2015. The sale is expected to close on December 31, 2017. This agreement has been accounted for as a secured financing arrangement as the Company retains the title, rights and benefits of ownership of the building. Consequently, the building has not been de-recognized as an asset from the Company's consolidated balance sheet and a repayment obligation was recorded in other liability (long-term) when the cash was received.
- Suppressing gross loss from chip sales by moving toward a fabless business model through an agreement with an ODM partner entered into on December 31, 2015. The Company is restructuring the chips manufacturing operation. The Company is exploring the opportunities to consign or sell certain equipment to the ODM partner. Part of its employees related to the Company's chips manufacturing has transferred to the ODM partner. The Company also implemented certain workforce reductions with respect to its chips manufacturing operation. Following the restructuring, the Company expects to reduce payroll, minimize research and development activities associated with chips manufacturing operation and reduce idle capacity charges. This partnership should help the Company obtain a steady source of LED chips with competitive and favorable price for its packaging business, expand the production capacity for LED components, and strengthen its product portfolio and technology.
- Increasing sales of Automotive Projects in both China and India by cultivating relationships with automotive lighting developers that are outside the Company's historical distribution channels. Maintaining the number of display models at automotive lighting facilities in order to provide dealers, communities and consumers with examples of newly designed product.
- Gaining positive cash-inflow from operating activities through continuous cost reductions and the sales of new higher margin products. In the second quarter of fiscal 2016, the Company's new module product has moved from sampling stage to mass production and begun shipment to customers. The sales of the new module product are expected to grow steadily. The successful introduction of the new module product and the continued commercial sales of its UV LED product are expected to improve the Company's future gross margin, operating results and cash flows. The Company is targeting niche markets and focused on product enhancement and developing its LED product into many other applications or devices.
- Management continues to monitor prices, work with current and potential vendors to decrease costs and, consistent with its existing contractual commitments, may decrease its activity level and capital expenditures further. This plan reflects its strategy of controlling capital costs and maintaining financial flexibility.
- Raise additional cash through further equity offerings, sales of assets and/or issuance of debt as considered necessary.

While the Company's management believes that the measures described in the above liquidity plan will be adequate to satisfy its liquidity requirements for the twelve months ending February 28, 2017, there is no assurance that the liquidity plan will be successfully implemented. Failure to successfully implement the liquidity plan may have a material adverse effect on its business, results of operations and financial position, and may adversely affect its ability to continue as a going concern. These unaudited interim condensed consolidated financial statements do not include any adjustments related to the recoverability and classification of recorded assets or the amounts and classification of liabilities or any other adjustments that might be necessary should the Company be unable to continue as a going concern.

**Principles of Consolidation** The unaudited interim condensed consolidated financial statements include the accounts of SemiLEDs and its consolidated subsidiaries. All intercompany transactions and balances have been eliminated during consolidation.

**Use of Estimates** The preparation of unaudited interim condensed consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the unaudited interim condensed consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Significant items subject to such estimates and assumptions include the collectibility of accounts receivable, inventory net realizable values, realization of deferred tax assets, valuation of stock-based compensation expense, the useful lives of property, plant and equipment and intangible assets, the recoverability of the carrying amount of property, plant and equipment, intangible assets, goodwill and investments in unconsolidated entities, the fair value of acquired tangible and intangible assets, income tax uncertainties, provision for potential litigation costs and other contingencies. Management bases its estimates on historical experience and also on assumptions that it believes are reasonable. Management assesses these estimates on a regular basis; however, actual results could differ materially from those estimates.

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On December 10, 2015, the Company entered into a Building Purchase Agreement to sell its headquarter building at a sales price of \$5.2 million. The sale is scheduled to close on December 31, 2017. As a result, the Company changed its estimates of the useful live and the salvage value of the building to better reflect the estimated periods during which the building will remain in service and the sales price. The effect of this change in estimate was immaterial for the period ended February 29, 2016.

**Certain Significant Risks and Uncertainties** The Company is subject to certain risks and uncertainties that could have a material and adverse effect on the Company's future financial position or results of operations, which risks and uncertainties include, among others: it has incurred significant losses over the past few years, any inability of the Company to compete in a rapidly evolving market and to respond quickly and effectively to changing market requirements, any inability of the Company to grow its revenue and/or maintain or increase its margins, it may experience fluctuations in its revenues and operating results, any inability of the Company to protect its intellectual property rights, claims by others that the Company infringes their proprietary technology, and any inability of the Company to raise additional funds in the future.

**Concentration of Supply Risk** Some of the components and technologies used in the Company's products are purchased and licensed from a limited number of sources and some of the Company's products are produced by a limited number of contract manufacturers. The loss of any of these suppliers and contract manufacturers may cause the Company to incur transition costs to another supplier or contract manufacturer, result in delays in the manufacturing and delivery of the Company's products, or cause it to carry excess or obsolete inventory. The Company relies on a limited number of such suppliers and contract manufacturers for the fulfillment of its customer orders. Any failure of such suppliers and contract manufacturers to perform could have an adverse effect upon the Company's reputation and its ability to distribute its products or satisfy customers' orders, which could adversely affect the Company's business, financial position, results of operations and cash flows.

**Concentration of Credit Risk** Financial instruments that subject the Company to concentrations of credit risk consist primarily of cash, cash equivalents and accounts receivable.

The Company keeps its cash and cash equivalents in demand deposits with prominent banks of high credit quality and invests only in money market funds. Deposits held with banks may exceed the amount of insurance provided on such deposits. As of February 29, 2016 and August 31, 2015, cash and cash equivalents of the Company consisted of the following (in thousands):

Cash and Cash Equivalents by Location	February 29, 2016	August 31, 2015
United States:		
Denominated in U.S. dollars	\$ 456	\$ 887
Taiwan:		
Denominated in U.S. dollars	3,239	1,716
Denominated in New Taiwan dollars	815	1,067
Denominated in other currencies	385	344
China (including Hong Kong):		



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Denominated in U.S. dollars	4	262
Denominated in Renminbi	406	531
Denominated in H.K. dollars	1	1
Total cash and cash equivalents	\$ 5,306	\$ 4,808

The Company's revenues are substantially derived from the sales of LED products. A significant portion of the Company's revenues are derived from a limited number of customers and sales are concentrated in a few select markets. Management performs ongoing credit evaluations of its customers and generally does not require collateral on accounts receivable. Management evaluates the need to establish an allowance for doubtful accounts for estimated potential credit losses at each reporting period. The allowance for doubtful accounts is based on the management's assessment of the collectibility of its customer accounts. Management regularly reviews the allowance by considering certain factors, such as historical experience, industry data, credit quality, age of accounts receivable balances and current economic conditions that may affect a customer's ability to pay.

Net revenues generated from sales to the top ten customers represented 69% and 64% of the Company's total net revenues for the three and six months ended February 29, 2016, respectively, and 79% and 66% of the Company's net revenues for the three and six months ended February 28, 2015, respectively.

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The Company's revenues have been concentrated in a few select markets, including Taiwan, the United States, and China (including Hong Kong). Net revenues generated from sales to customers in these markets, in the aggregate, accounted for 83% and 80% of the Company's net revenues for the three and six months ended February 29, 2016, respectively, and 87% and 85% of the Company's net revenues for the three and six months ended February 28, 2015, respectively.

**Noncontrolling Interests** Noncontrolling interests are classified in the consolidated statements of operations as part of consolidated net income (loss) and the accumulated amount of noncontrolling interests in the consolidated balance sheets as part of equity. Changes in ownership interest in a consolidated subsidiary that do not result in a loss of control are accounted for as an equity transaction. If a change in ownership of a consolidated subsidiary results in loss of control and deconsolidation, any retained ownership interests are remeasured with the gain or loss reported in net earnings.

**Recent Accounting Pronouncements**

In February 2016, the Financial Accounting Standards Board ( FASB ) issued Accounting Standards Update ( ASU ) 2016-02, Leases, which is intended to improve financial reporting on leasing transactions. This standard requires a lessee to record on the balance sheet the assets and liabilities for the rights and obligations created by lease terms of more than 12 months. This standard will be effective for the Company on September 1, 2019. The Company is currently evaluating the impact the adoption of this ASU will have on its consolidated financial statements.

In August 2014, the FASB issued ASU No. 2014-15 Presentation of Financial Statements - Going Concern (Subtopic 205-40) (Topic 718): Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern . The Update provides guidance to an organization's management, with principles and definitions that are intended to reduce diversity in the timing and content of disclosures that are commonly provided by organizations today in the financial statement footnotes. This Update is intended to define management's responsibility to evaluate whether there is substantial doubt about an organization's ability to continue as a going concern and to provide related footnote disclosures. The Update is effective for the Company on September 1, 2017 and management has elected not to early adopt it. When the Update is effective, it could have a material effect on management's assessment of the Company's ability to continue as a going concern.

In June 2014, the FASB issued ASU No. 2014-12 Compensation - Stock Compensation (Topic 718): Accounting for Share-Based Payments When the Terms of an Award Provide That a Performance Target Could Be Achieved after the Requisite Service Period. The amendments clarify the proper method of accounting for share-based payments when the terms of an award provide that a performance target could be achieved after the requisite service period. The Update requires that a performance target that affects vesting and that could be achieved after the requisite service period be treated as a performance condition. The performance target should not be reflected in estimating the grant-date fair value of the award. Compensation cost should be recognized in the period in which it becomes probable that the performance target will be achieved and should represent the compensation cost attributable to the period(s) for which the requisite service has already been rendered. The amendments in this Update are effective for annual periods and interim periods within those annual periods beginning after December 15, 2015. The new standard is effective for the Company on September 1, 2016. Management expects the adoption of the ASU would not have a material effect on the accompanying financial statements.

In May 2014, the Financial Accounting Standards Board ( FASB ) issued Accounting Standards Update ( ASU ) No. 2014-09, Revenue from Contracts with Customers, which requires an entity to recognize the amount of revenue to which it expects to be entitled for the transfer of

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promised goods or services to customers. The ASU will replace most existing revenue recognition guidance in U.S. GAAP when it becomes effective. The new standard is effective for the Company on September 1, 2017. Early application is not permitted. The standard permits the use of either the retrospective or cumulative effect transition method. Management is evaluating the effect that ASU 2014-09 will have on the Company's consolidated financial statements and related disclosures. Management has not yet selected a transition method nor has it determined the effect of the standard on the Company's ongoing financial reporting.

### 3. Balance Sheet Components

#### Inventories

Inventories as of February 29, 2016 and August 31, 2015 consisted of the following (in thousands):

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	February 29, 2016		August 31, 2015
Raw materials	\$ 1,741	\$	1,857
Work in process	732		793
Finished goods	2,491		3,274
Total	\$ 4,964	\$	5,924

Inventory write-downs to estimated net realizable values were \$113 thousand and \$565 thousand for the three and six months ended February 29, 2016, respectively, and \$158 thousand and \$386 thousand for the three and six months ended February 28, 2015, respectively.

**Property, Plant and Equipment**

Property, plant and equipment as of February 29, 2016 and August 31, 2015 consisted of the following (in thousands):

	February 29, 2016		August 31, 2015
Buildings and improvements	\$ 13,601	\$	13,883
Machinery and equipment	56,781		58,075
Leasehold improvements	465		474
Other equipment	3,652		3,732
Construction in progress	1,481		1,418
Total property, plant and equipment	75,980		77,582
Less: Accumulated depreciation, amortization and impairment	(58,018)		(56,803)
Property, plant and equipment, net	\$ 17,962	\$	20,779

**Intangible Assets**

Intangible assets as of February 29, 2016 and August 31, 2015 consisted of the following (in thousands):

	Weighted Average Amortization Period (Years)	February 29, 2016		
		Gross Carrying Amount	Accumulated Amortization and Impairment	Net Carrying Amount
Patents and trademarks	15	\$ 1,396	\$ 374	\$ 1,022
Acquired technology	5	647	407	240
Total		\$ 2,043	\$ 781	\$ 1,262

	Weighted Average	August 31, 2015		Net Carrying
		Gross Carrying	Accumulated Amortization	

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	Amortization Period (Years)	Amount	and Impairment	Amount
Patents and trademarks	14	\$ 1,390	\$ 333	\$ 1,057
Acquired technology	5	662	366	296
Total		\$ 2,052	\$ 699	\$ 1,353

**4. Investments in Unconsolidated Entities**

The Company's ownership interest and carrying amounts of investments in unconsolidated entities as of February 29, 2016 and August 31, 2015 consisted of the following (in thousands, except percentages):

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	February 29, 2016		August 31, 2015	
	Percentage Ownership	Amount	Percentage Ownership	Amount
Equity method investments:				
SILQ (Malaysia) Sdn. Bhd. ( SILQ )	33%	\$ 123	33%	\$ 129
Xurui Guangdian Co., Ltd. ( China SemiLEDs )	49%		49%	
Cost method investments	Various	1,859	Various	1,885
Total investments in unconsolidated entities		\$ 1,982		\$ 2,014

There were no dividends received from unconsolidated entities through February 29, 2016.

**Equity Method Investments**

The Company and the other investor in SILQ, a joint venture in Malaysia which is engaged in the design, manufacture and sale of lighting fixtures and systems, each owned a 50% equity interest in SILQ in 2009. In January 2014, the Company participated in SILQ's capital increase and contributed \$76 thousand. Following the capital increase, the Company's equity interest in SILQ was diluted from 50% to 49%, and consequently, the Company recognized a gain on dilution of its investment of \$26 thousand. The dilution gain was recognized as additional paid in capital in the consolidated statement of changes in equity. In April 2014, the Company sold part of its equity interest in SILQ to the other investor for a cash consideration of \$114 thousand and recognized a gain on sale of investment of \$37 thousand. The gain was reported in the consolidated statements of operations in equity in losses from unconsolidated entities. Upon consummation of the sale, the Company's equity interest in SILQ was reduced from 49% to 33%. The Company subsequently invested \$130 thousand in SILQ's capital increase in April 2014 and its equity interest remains unchanged.

The Company still owns a 49% equity interest in China SemiLEDs. However, this investment has a carrying amount of zero as a result of a previously recognized impairment.

**Cost Method Investments**

The fair values of the Company's cost method investments are not readily available. All cost method investments are assessed for impairment when events or changes in circumstances indicate that the carrying amounts may not be recoverable.

**5. Commitments and Contingencies**

**Operating Lease Agreements** The Company has several operating leases with unrelated parties, primarily for land, plant and office spaces in Taiwan, which are including cancellable and noncancellable and which expire at various dates between June 2016 and December 2020. Lease expense related to these noncancellable operating leases was \$155

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thousand and \$237 thousand for the three and six months ended February 29, 2016, respectively, and \$145 thousand and \$308 thousand for the three and six months ended February 28, 2015, respectively. Lease expense is recognized on a straight-line basis over the term of the lease.

The aggregate future noncancellable minimum rental payments for the Company's operating leases as of February 29, 2016 consisted of the following (in thousands):

<b>Years Ending August 31,</b>	<b>Operating Leases</b>
Remainder of 2016	\$ 285
2017	452
2018	298
2019	102
2020	84
Thereafter	21
<b>Total</b>	<b>\$ 1,242</b>

**Purchase Obligations** The Company had purchase commitments for inventory, property, plant and equipment in the amount of \$1.9 million and \$2.6 million as of February 29, 2016 and August 31, 2015, respectively.

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**Litigation** The Company is directly or indirectly involved from time to time in various claims or legal proceedings arising in the ordinary course of business. The Company recognizes a liability when it is probable that a loss has been incurred and the amount is reasonably estimable. There is significant judgment required in assessing both the likelihood of an unfavorable outcome and whether the amount of loss, if any, can be reasonably estimated. As of February 29, 2016, there was no pending or threatened litigation that could have a material impact on the Company's financial position, results of operations or cash flows.

**Common stock purchase agreement** The Company entered into a definitive common stock purchase agreement effective December 18, 2014 (the Agreement) with Mr. Xiaoqing Han, the Chairman and CEO of Beijing Xiaoqing Environmental Protection Group. The transaction has not closed due to Mr. Han's difficulty in transferring funds from China. To date, the Company has only received approximately \$261 thousand of the \$5 million purchase price. Pursuant to the terms of the Agreement, if Mr. Han did not purchase the shares before February 25, 2015, then he is required, upon written request by the Company, to pay the Company \$3 million in liquidated damages plus the legal fees incurred by the Company relating to the sale. On June 29, 2015, the Company provided written notice to Mr. Han informing him that he is in breach of the Agreement for failure to provide full payment before February 25, 2015 and demanding that he remit the balance of the purchase price by July 16, 2015 or, alternatively, the \$3 million in liquidated damages. On July 6, 2015, Mr. Han replied in a letter that he acknowledged receiving of the payment demand notice and the balance he owed under the Agreement. He also expressed his intent to continue with the terms and conditions in the Agreement. However, he was unable to transfer personal investment funds out of China. He requested an extension of time to complete the purchase. The Company's Board has rejected his request of granting him more time to execute the Agreement and commenced legal actions to collect the amounts owed under the Agreement. There can be no assurance when the Company can collect any judgment for liquidated damages. This gain contingency has not been recognized in these consolidated financial statements and the amount liquidation damages collected, if any, will be recognized when received.

## 6. Stock-based Compensation

The Company currently has one equity incentive plan (the 2010 Plan), which provides for awards in the form of restricted shares, stock units, stock options or stock appreciation rights to the Company's employees, officers, directors and consultants. In April 2014, SemiLEDs stockholders approved an amendment to the 2010 Plan that increased the number of shares authorized for issuance under the plan by an additional 2,500 thousand shares. Prior to SemiLEDs' initial public offering, the Company had another stock-based compensation plan (the 2005 Plan), but awards are made from the 2010 Plan after the initial public offering. Options outstanding under the 2005 Plan continue to be governed by its existing terms.

A total of 6,349 thousand shares was reserved for issuance under the 2005 Plan and 2010 Plan as of both February 29, 2016 and February 28, 2015. As of February 29, 2016 and February 28, 2015, there were 3,658 thousand and 4,174 thousand shares of common stock available for future issuance under the equity incentive plans.



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During fiscal 2015, SemiLEDs granted 95 thousand restricted stock units to the Company's executives and employees. These stock units vest over four years at a rate of 25% on each anniversary of the vesting start date. The grant-date fair value of stock units was equal to the closing price of the common stock on the date of grant. In addition, in May 2015, SemiLEDs granted 50 thousand restricted stock units to its directors that vest 100% on the earlier of the first anniversary of the vesting start date of May 7, 2016 and the date of the next annual meeting. The grant-date fair value of the restricted stock units was \$0.82 per unit. Each restricted stock unit represents the contingent right to one share of SemiLEDs' common stock.

The grant date fair value of stock options is determined using the Black-Scholes option-pricing model. The Black-Scholes option-pricing model requires inputs including the market price of SemiLEDs' common stock on the date of grant, the term that the stock options are expected to be outstanding, the implied stock volatilities of several of the Company's publicly-traded peers over the expected term of stock options, risk-free interest rate and expected dividend. Each of these inputs is subjective and generally requires significant judgment to determine. The grant date fair value of stock units is based upon the market price of SemiLEDs' common stock on the date of the grant. This fair value is amortized to compensation expense over the vesting term.

Stock-based compensation expense is recorded net of estimated forfeitures such that expense is recorded only for those stock-based awards that are expected to vest. A forfeiture rate is estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from initial estimates. A forfeiture rate of zero is estimated for stock-based awards with vesting term that is less than or equal to one year from the date of grant.

A summary of the stock-based compensation expense for the three and six months ended February 29, 2016 and February 28, 2015 was as follows (in thousands):

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	Three Months Ended		Six Months Ended	
	February 29, 2016	February 28, 2015	February 29, 2016	February 28, 2015
Cost of revenues	\$ 28	\$ 93	\$ 54	\$ 215
Research and development	15	48	30	111
Selling, general and administrative	115	237	116	499
	\$ 158	\$ 378	\$ 200	\$ 825

**7. Net Loss Per Share of Common Stock**

The following stock-based compensation plan awards were excluded from the computation of diluted net loss per share of common stock for the periods presented because including them would have been anti-dilutive (in thousands of shares):

	Three Months Ended		Six Months Ended	
	February 29, 2016	February 28, 2015	February 29, 2016	February 28, 2015
Stock units and stock options to purchase common stock	203	286	283	316

**8. Income Taxes**

The Company's loss before income taxes for the three and six months ended February 29, 2016 and February 28, 2015 consisted of the following (in thousands):

	Three Months Ended		Six Months Ended	
	February 29, 2016	February 28, 2015	February 29, 2016	February 28, 2015
U.S. operations	\$ (102)	\$ (192)	\$ (247)	\$ (503)
Foreign operations	(2,443)	(2,712)	(5,613)	(6,772)
Loss before income taxes	\$ (2,545)	\$ (2,904)	\$ (5,860)	\$ (7,275)

**Unrecognized Tax Benefits**

As of both February 29, 2016 and August 31, 2015, the Company had no unrecognized tax benefits related to tax positions taken in prior periods. The Company files income tax returns in the United States, various U.S. states and certain foreign jurisdictions. The tax years 2005 through 2014 remain open in most jurisdictions. The Company is not currently under examination by income tax authorities in federal, state or foreign jurisdictions.

**9. Employee Termination Benefits**

In December 2015, the Company announced a restructuring plan with respect to the chips manufacturing operation in order to better align its fabless business model. Under the restructuring plan, the Company implemented certain workforce reductions with respect to its chips manufacturing operation. In the second quarter of 2016, part of its employees related to the Company's chips manufacturing has transferred to their ODM partner. The Company also reduced the workforce at chips manufacturing operation that are no longer required to support production and operations. Accordingly, an accrued liability totaling \$148 thousand was recognized for employee termination benefits for 39 employees, or approximately 14 percent of the workforce. These benefits were paid to these employees in March 2016.

#### **10. Subsequent Events**

At its Annual Meeting held on April 12, 2016 (Taiwan time), the Company's stockholders approved an amendment to its Restated Certificate of Incorporation, as amended ( Certificate of Incorporation ), to effect a reverse stock split (the Reverse Stock Split ) by a ratio of not less than one-for-four (1:4) and not greater than one-for-ten (1:10), with the exact ratio to be set as a whole number within this range determined by the Company's Board. The Company's Board has approved a one-for-ten (1:10) Reverse Stock Split. The Company expects to effect the Reverse Stock Split effective as of the close of business on April 15, 2016. The Reverse Stock Split will have no effect on the par value of its common stock and will not reduce the number of authorized shares of common stock but will have the effect of reducing the number of outstanding shares of common stock by the chosen ratio. The Company will pay cash in lieu of any fractional shares resulting from the Reverse Stock Split.

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

**Forward Looking Statements**

This Quarterly Report on Form 10-Q, or this Quarterly Report, contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act. All statements other than statements of historical facts contained in this Quarterly Report, including statements regarding the future results of operations of SemiLEDs Corporation, or we, our or the Company, and financial position, strategy and plans, and our expectations for future operations, including the execution of restructuring plan and any resulting cost savings, are forward-looking statements. Any statements contained herein that are not statements of historical facts may be deemed to be forward-looking statements. The words believe, may, should, plan, potential, project, will, estimate, continue, anticipate, de and similar expressions are intended to identify forward-looking statements. We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, strategy, short-term and long-term business operations and objectives, and financial needs. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, and actual results and the timing of certain events could differ materially and adversely from those anticipated or implied in the forward-looking statements as a result of many factors. These factors include, among other things,

- Declining cash position.
  
- The impact on the trading price of our common stock if we are delisted for failure to meet the NASDAQ continued listing requirements if our stock continues to trade below \$1 per share.
  
- The inability of our ODM partner or other contract manufacturers to produce products that satisfy our requirements.
  
- Our ability to implement our cost reduction programs and to execute our restructuring plan effectively.
  
- Our ability to improve our gross margins, reduce our net losses and restore our operations to profitability.
  
- Our ability to collect the \$3 million liquidated damages owed to us by the investor who failed to complete the private placement.

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- Our ability to successfully introduce new products that we can produce and that customers will purchase in such amounts as to be sufficiently profitable to cover the costs of developing and producing these products, as well as providing us additional net income from operations.
- Our ability to improve our liquidity, access alternative sources of funding and obtain additional equity capital or credit when necessary for our operations, the difficulty of which may increase if our common stock is delisted from The NASDAQ Stock Market.
- Our ability to effectively develop, maintain and expand our sales and distribution channels, especially in the niche LED markets, including the UV LED and architectural lighting that we focus on.
- Our ability to successfully manage our operations in the face of the cyclicity, rapid technological change, rapid product obsolescence, declining average selling prices and wide fluctuations in supply and demand typically found in the LED market.
- Competitive pressures from existing and new companies.
- Our ability to grow our revenues generated from the sales of our products and to control our expenses.
- Loss of any of our key personnel, or our failure to attract, assimilate and retain other highly qualified personnel.
- Intellectual property infringement or misappropriation claims by third parties against us or our customers, including our distributor customers.

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- The failure of LEDs to achieve widespread adoption in the general lighting market, or if alternative technologies gain market acceptance.
  
- The loss of key suppliers or contract manufacturers.
  
- Our ability to effectively expand or upgrade our production facilities or do so in a timely or cost-effective manner.
  
- Difficulty in managing our future growth or in responding to a need to contract operations, and the associated changes to our operations.
  
- Adverse development in those selected markets, including Taiwan, the United States and China, where our revenues are concentrated.
  
- Our ability to develop and execute upon a new strategy to exploit the China and India market.
  
- The reduction or elimination of government investment in LED lighting or the elimination of, or changes in, policies in certain countries that encourage the use of LEDs over some traditional lighting technologies.
  
- Our ability to implement our product innovation strategy effectively, particularly in view of the prohibition against our (and/or our assisting others in) making, using, importing, selling and/or offering to sell in the United States our accused products and/or any device that includes an accused product after October 1, 2012 as a result of the injunction agreed to in connection with the Cree Inc., or Cree, litigation.
  
- Loss of customers.
  
- Failure of our strategy of marketing and selling our products in jurisdictions with limited intellectual property enforcement regimes.

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- Lack of marketing and distribution success by our third-party distributors.
- Our customers' ability to produce and sell products incorporating our LED products.
- Our failure to adequately prevent disclosure of trade secrets and other proprietary information.
- Ineffectiveness of our disclosure controls and procedures and our internal control over financial reporting.
- Our ability to profit from existing and future joint ventures, investments, acquisitions and other strategic alliances.
- Impairment of goodwill, long-lived assets or investments.
- Undetected defects in our products that harm our sales and reputation and adversely affect our manufacturing yields.
- The availability of adequate and timely supply of electricity and water for our manufacturing facilities.
- Our ability to comply with existing and future environmental laws and the cost of such compliance.
- The non-compete provisions between us and Xurui Guangdian Co., Ltd., or China SemiLEDs, constraining our ability to grow in China, or actions by China SemiLEDs or the other shareholders of China SemiLEDs that are detrimental to us.
- The ability of SemiLEDs Optoelectronics Co., Ltd., or Taiwan SemiLEDs, to make dividends and other payments to us.
- Our ability to obtain necessary regulatory approvals to make further investments in Taiwan SemiLEDs.

- Catastrophic events such as fires, earthquakes, floods, tornados, tsunamis, typhoons, pandemics, wars, terrorist activities and other similar events, particularly if these events occur at or near our operations, or the operations of our suppliers, contract manufacturers and customers.



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- The effect of the legal system in the People's Republic of China, or the PRC.
- Labor shortages, strikes and other disturbances that affect our operations.
- Deterioration in the relations between the PRC and Taiwan governments.
- Fluctuations in the exchange rate among the U.S. dollar, the New Taiwan, or NT, dollar, the Japanese Yen and other currencies in which our sales, raw materials and component purchases and capital expenditures are denominated.
- The effect of the disclosure requirements under the provisions of the Dodd-Frank Act relating to conflict minerals, which could increase our costs and limit the supply of certain metals used in our products and affect our reputation with customers and shareholders.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. We have not assumed any obligation to, and you should not expect us to, update or revise these statements because of new information, future events or otherwise.

For more information on the significant risks that could affect the outcome of these forward-looking statements, see Item 1A Risk Factors in Part I of our Annual Report on Form 10-K for the fiscal year ended August 31, 2015, or the 2015 Annual Report, and those contained in Part II, Item 1A of this Quarterly Report, and other information provided from time to time in our filings with the Securities and Exchange Commission, or the SEC.

The following discussion and analysis of our financial condition and results of operations is based upon and should be read in conjunction with the unaudited interim condensed consolidated financial statements and the notes and other information included elsewhere in this Quarterly Report, in our 2015 Annual Report, and in other filings with the SEC.

**Company Overview**

We develop, manufacture and sell light emitting diode (LED) chips and LED components. Our products are used primarily for general lighting applications, including street lights and commercial, industrial and residential lighting. Our LED chips may also be used in specialty industrial applications, such as ultraviolet, or UV, curing of polymers, LED light therapy in medical/cosmetic applications, counterfeit detection, LED

lighting for horticulture applications, architectural lighting and entertainment lighting.

Utilizing our patented and proprietary technology, our manufacturing process begins by growing upon the surface of a sapphire wafer, or substrate, several very thin separate semiconductive crystalline layers of gallium nitride, or GaN, a process known as epitaxial growth, on top of which a mirror-like reflective silver layer is then deposited. After the subsequent addition of a copper alloy layer and finally the removal of the sapphire substrate, we further process this multiple-layered material to create individual vertical LED chips.

We package our LED chips into LED components, which we sell to a customer base that is heavily concentrated in a few select markets, including Taiwan, the United States and China (including Hong Kong). We also sell our Enhanced Vertical, or EV, LED product series in blue, white, green and UV in selected markets. We sell our LED chips to packagers or to distributors, who in turn sell to packagers. Our lighting products customers are primarily original design manufacturers, or ODMs, of lighting products and the end-users of lighting devices. We also contract other manufacturers to produce for our sale certain LED products, and for certain aspects of our product fabrication, assembly and packaging processes, based on our design and technology requirements and under our quality control specifications and final inspection process.

We have developed advanced capabilities and proprietary know-how in:

- reusing sapphire substrate in subsequent production runs;
- optimizing our epitaxial growth processes to create layers that efficiently convert electrical current into light;
- employing a copper alloy base manufacturing technology to improve our chip's thermal and electrical performance;
- utilizing nanoscale surface engineering to improve usable light extraction;

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- developing a LED structure that generally consists of multiple epitaxial layers which are vertically-stacked on top of a copper alloy base; and
- developing low cost Chip Scaled Packaging (CSP) technology.

These technical capabilities enable us to produce LED chips and LED component products. We entered into a Foundry Services and Licensing Agreement with an ODM partner in December 2015 to assist us with the restructuring of our chips manufacturing operations. The ODM partner will work with us to ODM vertical chips for us using our vertical technology. We granted our ODM partner a royalty-free, non-transferable, nonexclusive license to use our technology and intellectual property for internal use by the ODM partner's employees at its facilities for the purpose of manufacturing, testing and supplying us its products. We believe these capabilities, know-how and partnership should also allow us to reduce our manufacturing costs and our dependence on sapphire, a costly raw material used in the production of sapphire-based LED devices.

We were incorporated in the State of Delaware on January 4, 2005 and sold our first LED chips in November 2005. We are a holding company for various wholly and majority owned subsidiaries. Our most significant subsidiary is our wholly owned operating subsidiary, SemiLEDs Optoelectronics Co., Ltd., or Taiwan SemiLEDs, where a substantial portion of our assets are held and located, where a substantial portion of our research, development, manufacturing, marketing and sales activities take place, and where most of our employees are based. Taiwan SemiLEDs owns a 100% equity interest in Taiwan Bandaoti Zhaoming Co., Ltd., formerly known as Silicon Base Development, Inc., which is engaged in the research, development, manufacture, marketing and sale of LED components. As of February 29, 2016, we also owned a 93% equity interest in Ning Xiang Technology Co., Ltd., or Ning Xiang, a company engaged in the design, manufacture and sale of lighting fixtures and systems.

We also have interests in unconsolidated joint ventures that we have accounted for as equity method investments and as such have not consolidated for financial reporting purposes. As of February 29, 2016, we owned a 33% interest in SILQ (Malaysia) Sdn. Bhd. or SILQ, a joint venture established in Malaysia to design, manufacture and sell lighting fixtures and systems.

**Key Factors Affecting Our Financial Condition, Results of Operations and Business**

The following are key factors that we believe affect our financial condition, results of operations and business:

- ***Our ability to outsource manufacturing and our ability to get chips from other chip suppliers.*** Our reliance on our new ODM partner exposes us to a number of significant risks, including reduced control over delivery schedules, quality assurance and production costs, lack of guaranteed production capacity or product supply, and the possible breach of the manufacturing agreement by the contract manufacturer because of factors beyond our control. If our ODM partner fails to deliver products on time and at a satisfactory level of quality, we could have difficulties fulfilling our customer orders and our net revenue could decline. If our ODM partner were to become unable or unwilling to continue to manufacture our products at requested quality, quantity, performance and costs, or in a timely

manner, our business and reputation could be seriously harmed. As a result, we would have to attempt to identify and qualify substitute manufacturers, which could be time consuming and difficult, and might result in unforeseen manufacturing and operations problems. Our inability to procure chips from other chip suppliers at the desired quality, quantity, performance and cost might result in unforeseen manufacturing and operations problems. In such events, our customer relationships, business, financial condition and results of operations would be adversely affected.

- ***Industry growth and demand for products and applications using LEDs.*** The overall adoption of LED lighting devices to replace traditional lighting sources is expected to influence the growth and demand for LED chips and component products and impact our financial performance. We believe the potential market for LED lighting will continue to expand. LEDs for efficient generation of UV light are also starting to gain attention for various medical, germicidal and industrial applications. Since a substantial portion of our LED chips, LED components and our lighting products are used by end-users in general lighting applications and specialty industrial applications such as UV curing, medical/cosmetic, counterfeit detection, horticulture, architectural lighting and entertainment lighting, the adoption of LEDs into these applications will have a strong impact on the demand of LED chips generally and, as a result, for our LED chips, LED components and LED lighting products. Fluctuations in demand for LED lighting products will also affect the results of Ning Xiang.
- ***Average selling price of our products.*** The average selling price of our products may decline for a variety of factors, including prices charged by our competitors, the efficacy of our products, our cost basis, changes in our product mix, the size of the order and our relationship with the relevant customer, as well as general market and economic conditions. Competition in the markets for LED products is intense, and we expect that competition will continue to increase, thereby creating a highly aggressive pricing environment. For example, some of our competitors have in the past reduced their average selling prices, and the resulting competitive pricing pressures have caused us to similarly reduce our prices, accelerating the decline in our revenues and the gross margin of our products. When prices decline, we must also write down the value of our inventory. Furthermore, the average selling prices for our LED products have typically decreased over product life cycles. Therefore, our ability to continue to innovate and offer competitive products that meet our customers' specifications and pricing requirements, such as higher efficacy LED products at lower costs, will have a material influence on our ability to improve our revenues and product margins, although in the near term the introduction of such higher performance LED products may further reduce the selling prices of our existing products or render them obsolete. Reduction in the average selling price of LED lights products will also affect the results of Ning Xiang.

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- ***Changes in our product mix.*** We anticipate that our gross margins will continue to fluctuate from period to period as a result of the mix of products that we sell and the utilization of our manufacturing capacity in any given period, among other things. For example, we continue to pursue opportunities for profitable growth in areas of business where we see the best opportunity to develop as an end-to-end LED module solution supplier by providing our customers with high quality, flexible and more complete LED system solution, customer technical support and LED module/system design, as opposed to just providing customers with individual components. As a strategic plan, we have placed greater emphasis on the sales of LED components rather than the sales of LED chips where we have been forced to cut prices on older inventory. The successful introduction of the new module product and the continued commercial sales of our UV LED product are expected to improve our gross margin, operating results and cash flows in the second half of our fiscal 2016. In addition, we have adjusted the lower-priced LED components strategy as appropriate. However, as we expand and diversify our product offerings and with varying average selling prices, or execute new business initiatives, a change in the mix of products that we sell in any given period may increase volatility in our revenues and gross margin from period to period.
- ***Our ability to reduce cost to offset lower average prices.*** Competitors may reduce average selling prices faster than our ability to reduce costs, and competitive pricing pressures may accelerate the rate of decline of our average selling prices. To address increased pricing pressure, we have improved and increased our production yields to reduce the per-unit cost of production of our products. However, such cost savings currently have limited impact on our gross profit, as we currently suffer from the underutilization of manufacturing capacity and must absorb a high level of fixed costs, such as depreciation. We anticipate moving toward a fabless business model in which we would utilize foundry fabs to ODM our chips using our developed technology. As part of the restructuring, we are exploring the opportunities to consign or sell our chip manufacturing equipment to our ODM partner or others, which will help us to reduce the idle capacity costs. While we intend to focus on managing our costs and expenses, over the long term we expect to be required to invest substantially in LED component products development and production equipment if we are to grow.
- ***Our ability to continue to innovate.*** As part of our growth strategy, we plan to continue to be innovative in product design, to deliver new products and to improve our manufacturing efficiencies. Our continued success depends on our ability to develop and introduce new, technologically advanced and lower cost products, such as more efficient, better performance LED component products. If we are unable to introduce new products that are commercially viable and meet rapidly evolving customer requirements or keep pace with evolving technological standards and market developments or are otherwise unable to execute our product innovation strategy effectively, we may not be able to take advantage of market opportunities as they arise, execute our business plan or be able to compete effectively. In March 2015, we announced our Phosphor Converted or PC LED chip series, including PC Red, PC Green, and PC Amber, in a 40mil (1mm x 1mm) chip that combines with our ReadyWhite phosphor technology to minimize blue pass through in our product and therefore allow more options for our customers in these color ranges. In August 2015, we launched two UV COB module products: D4525 and D4825. These high density UV modules are suggested to be driven at 120W and 200W respectively with efficient thermal management. The modules are designed for various printing, curing, and PCB exposure industrial equipments, providing uncompromised reliability and optical output.

- ***General economic conditions and geographic concentration.*** Many countries including the United States and the European Union members have instituted, or have announced plans to institute, government regulations and programs designed to encourage or mandate increased energy efficiency in lighting. These actions include in certain cases banning the sale after specified dates of certain forms of incandescent lighting, which are advancing the adoption of more energy efficient lighting solutions such as LEDs. The global financial crisis that began in late 2007 caused extreme disruption in the financial markets. Although the disruption in the financial markets moderated thereafter, the global financial markets continue to reflect uncertainty about a sustained economic recovery. When the global economy slows or a financial crisis occurs, consumer and government confidence declines, with levels of government grants and subsidies for LED adoption and consumer spending likely to be adversely impacted. Our revenues have been concentrated in a few select markets, including Taiwan, the United States and China (including Hong Kong). Given that we are operating in a rapidly changing industry, our sales in specific markets may fluctuate from quarter to quarter. Therefore, our financial results will be impacted by general economic and political conditions in such markets. For example, the aggressive support by the Chinese government for the LED industry through significant government incentives and subsidies to encourage the use of LED lighting and to establish the LED-sector companies has resulted in production overcapacity in the market and intense competition. Furthermore, due to Chinese package manufacturers increasing usage of domestic LED chips, prices are increasingly competitive, leading to Chinese manufacturers growing market share in the global LED industry. In addition, we have historically derived a significant portion of our revenues from a limited number of customers. Some of our largest customers and what we produce/have produced for them have changed from quarter to quarter primarily as a result of the timing of discrete, large project-based purchases and broadening customer base, among other things. For the three and six months ended February 29, 2016, sales to our three largest customers, in the aggregate, accounted for 50% and 45% of our revenues, respectively.

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- ***Intellectual property issues.*** Competitors of ours and other third parties have in the past and will likely from time to time in the future allege that our products infringe on their intellectual property rights. Defending against any intellectual property infringement claims would likely result in costly litigation and ultimately may lead to our not being able to manufacture, use or sell products found to be infringing. In June 2012, we settled an intellectual property dispute involving Cree. We agreed to dismiss amended complaints filed against each other without prejudice. We agreed to the entry of a permanent injunction that was effective October 1, 2012 that precludes us from (and/or from assisting others in) making, using, importing, selling and/or offering to sell in the United States certain accused products and/or any device that includes such an accused product after that date and to payment of a settlement fee for past damages. All accused products sold before the date of settlement are released under this agreement and our customers and distributors are specifically released. All remaining claims between Cree and us were withdrawn without prejudice, with each retaining the right to assert them in the future. However, other third parties may also assert infringement claims against our customers with respect to our products, or our customers' products that incorporate our technologies or products. Any such legal action or the threat of legal action against us, or our customers, could impair such customers' continued demand for our products. This could prevent us from growing or even maintaining our revenues, or cause us to incur additional costs and expenses, and adversely affect our financial condition and results of operations.

- ***Declining cash position.*** Although our cash and cash equivalents increased to \$5.3 million as of February 29, 2016 due to the receipt of the \$3 million initial installment of cash consideration for the potential sale of our headquarters building, our net cash used in operating activities, payments related to long-term debt, and cash payments on fixed assets for the consolidation of our manufacturing operations remain primary factors driving the decrease in our cash position. We have implemented actions to accelerate operating cost reductions and improve operational efficiencies. The plan is further enhanced through the fabless business model in which we implemented certain workforce reductions and are exploring the opportunities to consign or sell certain equipment related to the manufacturing of vertical LED chips to our ODM partner or others, in order to reduce the idle capacity charges, minimize our research and development activities associated with chips manufacturing operation. We believe we will be able to generate positive cash inflows through the restructuring of our chip operation and the significant ongoing cost savings in the form of reduced payroll and research and development activities. The shipment of our new module product and the continued commercial sales of our UV LED product are expected to grow steadily. Based on our current financial projections, we believe that we will have sufficient sources of liquidity to fund our operations and capital expenditure plans for the next 12 months. Please see *Critical Accounting Policies and Estimates* Basis of Presentation *Going Concern* for more information about our liquidity plans.

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**Recent Developments**

We entered into a Foundry Services and Licensing Agreement effective December 31, 2015, with an ODM partner to assist us with the restructuring of our chips manufacturing operations to move toward a fabless business model. Both the ODM partner and SemiLEDs are required to commit significant resources to the extensive qualification process with chips before the ODM partner is able to ODM vertical chips for us using our vertical technology. It may take us longer than expected to complete the qualification process and may result in additional delays because of the complex production processes, different platforms and multiple cycles of rigorous reliability testing involved in the collaboration. Since there are numerous products and each requires a separate qualification process to be completed, we plan to run some production for maintaining appropriate stocking levels to meet our commitment to our existing customer. Furthermore, we are exploring the opportunities to consign or sale certain equipment related to the manufacturing of vertical LED chips to our ODM partner. Part of our employees related to the manufacturing of vertical LED chips have been laid off or transferred to our ODM partner. Despite the employee severance costs of \$0.1 million recognized in the second quarter of 2016, our management believes the significant ongoing cost savings in the form of reduced payroll will result from the workforce reductions. Following the restructuring, we will be able to reduce our staff and minimize our research and development activities associated with chips manufacturing operation. We plan to work together towards formulating certain strategic alternatives to exploit the opportunities that it presents, including co-designing and co-developing chips and production processes, while perfecting quality control under a specific timeline. This partnership is expected to allow us have a steady source of LED chips with competitive and favorable price for our packaging business, expand our production capacity for LED components, and strengthen our product portfolio and technology. In consideration for the interest and benefits in strengthening technical cooperation and accelerating future business cooperation between the parties, we agreed to grant our ODM partner and its affiliates a non-transferable, non-exclusive, sub-licensable license to import, export, offer for sale, sell, or otherwise distribute any of ODM vertical chips, subject that any other monetary compensation for such license may be negotiated in good faith by the parties. But there can be no assurance that we will be able to reach any future cooperation agreements on acceptable terms, if at all.

**Critical Accounting Policies and Estimates**

There have been no material changes in the matters for which we make critical accounting policies and estimates in the preparation of our unaudited interim condensed consolidated financial statements for the six months ended February 29, 2016 as compared to those disclosed in our 2015 Annual Report.

**Exchange Rate Information**

We are a Delaware corporation and, under SEC requirements, must report our financial position, results of operations and cash flows in accordance with accounting principles generally accepted in the United States of America, or U.S. GAAP. At the same time, our subsidiaries use the local currency as their functional currency. For example, the functional currency for Taiwan SemiLEDs is the NT dollar. The assets and liabilities of the subsidiaries are, therefore, translated into U.S. dollars at exchange rates in effect at each balance sheet date, and income and expense accounts are translated at average exchange rates during the period. The resulting translation adjustments are recorded to a separate component of accumulated other comprehensive income (loss) within equity. Any gains and losses from transactions denominated in currencies other than their functional currencies are recognized in the consolidated statements of operations as a separate component of other income (expense). Due to exchange rate fluctuations, such translated amounts may vary from quarter to quarter even in circumstances where such amounts have not materially changed when denominated in their functional currencies.



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The translations from NT dollars to U.S. dollars were made at the exchange rates as set forth in the statistical release of the Bank of Taiwan. On February 29, 2016, the exchange rate was 33.24 NT dollars to one U.S. dollar. On April 7, 2016, the exchange rate was 32.39 NT dollars to one U.S. dollar.

The following table sets forth, for the periods indicated, information concerning the number of NT dollars for which one U.S. dollar could be exchanged.

	Average(1)	NT dollars per U.S. dollar		Period-End
		High	Low	
Fiscal 2014	29.94	30.60	29.36	29.90
Fiscal 2015	31.08	32.86	29.86	32.50
September 2015	32.61	33.00	32.35	32.87
October 2015	32.49	32.90	32.24	32.44
November 2015	32.60	32.80	32.34	32.59
December 2015	32.79	32.89	32.68	32.83
January 2016	33.46	33.77	33.01	33.45
February 2016	33.28	33.56	33.02	33.24
March 2016	32.69	33.16	32.19	32.19
April 2016 (through April 7, 2016)	32.35	32.42	32.25	32.39

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(1) Annual averages calculated from month-end rates and monthly averages calculated from daily closing rates.

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No representation is made that the NT dollar or U.S. dollar amounts referred to herein could have been or could be converted into U.S. dollars or NT dollars, as the case may be, at any particular rate or at all.

**Results of Operations****Three Months Ended February 29, 2016 Compared to the Three Months Ended February 28, 2015**

	Three Months Ended		February 28,		Change	Change
	February 29, 2016	% of Revenues	February 28, 2015	% of Revenues		
	\$		\$		\$	%
			(in thousands)			
LED chips	\$ 237	8%	\$ 529	11%	\$ (292)	(55)%
LED components	2,258	77%	3,166	69%	(908)	(29)%
Lighting products	347	12%	847	19%	(500)	(59)%
Other revenues (1)	74	3%	24	1%	50	*
Total revenues, net	2,916	100%	4,566	100%	(1,650)	(36)%
Cost of revenues	3,711	127%	5,217	114%	(1,506)	(29)%
Gross loss	\$ (795)	(27)%	\$ (651)	(14)%	\$ (144)	22%

\* Not meaningful

(1) Other includes primarily revenues attributable to the sale of epitaxial wafers, scraps and raw materials and the provision of services.

**Revenues, net**

Our revenues decreased by 36% to \$2.9 million for the three months ended February 29, 2016 from \$4.6 million for the three months ended February 28, 2015. The decrease in revenues was driven primarily by a \$0.9 million decrease in revenues attributable to sales of LED components, a \$0.5 million decrease in revenues attributable to sales of lighting products and a \$0.3 million decrease in revenues attributable to sales of LED chips.

Revenues attributable to the sales of our LED chips represented 8% and 11% of our revenues for the three months ended February 29, 2016 and February 28, 2015, respectively. The decrease of 55% in revenues attributable to sales of LED chips was the result of a 51% decrease in the volume of LED chips sold, primarily due to our strategic plan to place

greater emphasis on the sales of LED components rather than the sales of LED chips and a business interruption as a result of the restructuring plan which has temporarily impacted our ability to serve the needs of our customers on a timely basis.

Revenues attributable to the sales of our LED components represented 77% and 69% of our revenues for the three months ended February 29, 2016 and February 28, 2015, respectively. The decrease in revenues attributable to sales of LED components was due to lower volume sold. The decrease in the volume sold was primarily a result of a decline in customer demand for the UV LED components product that we sold in significant volume during the three months ended February 28, 2015, which more than offset the increase in new module product sales and which resulted in an overall decrease in the sales of our LED components for the three months ended February 29, 2016.

Revenues attributable to the sales of lighting products represented 12% and 19% of our revenues for the three months ended February 29, 2016 and February 28, 2015, respectively. Revenues attributable to the sales of lighting products was lower for the three months ended February 29, 2016 primarily due to a slowdown in demand on LED luminaries and retrofits and fewer non-recurring project-based orders for LED lighting products compared to the three months ended February 28, 2015.

The increase in other revenues was primarily due to higher sales of scrap.

#### *Cost of Revenues*

Our cost of revenues decreased by 29% from \$5.2 million for the three months ended February 28, 2015 to \$3.7 million for the three months ended February 29, 2016. The decrease in cost of revenues was primarily due to the effect of our ongoing cost reduction and the result of lower sales volume for our LED chips and components for the three months ended February 29, 2016. Additionally, the inventory write-downs included in cost of revenues decreased to \$0.1 million for the three months ended February 29, 2016 from \$0.2 million for the three months ended February 28, 2015.

Table of Contents**Gross Loss**

Our gross loss increased from a loss of \$0.7 million for the three months ended February 28, 2015 to a loss of \$0.8 million for the three months ended February 29, 2016. Our gross margin percentage was negative 27% for the three months ended February 29, 2016, as compared to negative 14% for the three months ended February 28, 2015. The gross margin percentage decline was a consequence of the reduction in the average selling prices and volume sold.

**Operating Expenses**

	Three Months Ended		February 28,		Change	Change
	February 29, 2016	% of Revenues	February 28, 2015	% of Revenues		
	\$		\$		\$	%
	(in thousands)					
Research and development	\$ 622	21%	\$ 612	13%	\$ 10	2%
Selling, general and administrative	1,203	41%	1,876	41%	(673)	(36)%
Employee termination benefits	148	5%		%	148	%
Loss (gain) on disposal of long-lived assets, net	2	0%	(287)	(6)%	289	*
Total operating expenses	\$ 1,975	67%	\$ 2,201	48%	\$ (226)	(10)%

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\* Not meaningful

**Research and development.** Our research and development expenses were \$0.6 million for both the three months ended February 29, 2016 and February 28, 2015. The increase in materials and supplies used in product development projects was offset by a decrease in salary-related expenses, which is attributable to employee attrition, as well as decreased stock-based compensation cost for our research and development personnel.

**Selling, general and administrative.** Our selling, general and administrative expenses decreased from \$1.9 million for the three months ended February 28, 2015 to \$1.2 million for the three months ended February 29, 2016. The decrease was mainly attributable to a \$0.3 million decrease in payroll and stock based compensation, a \$0.3 million decrease in professional service expenses, mainly legal and advisory services and decreases in various other expenses including depreciation and amortization, insurance, travel related expenses, rent and advertisement of \$0.1 million. We have started to realize the benefits of operating cost reduction actions, such as savings on lease and lower payroll expenses due to workforce reductions and normal attrition, and improvement in operational efficiencies through the consolidation of facilities.

*Employee termination benefits.* Employee termination benefits of \$0.1 million were recognized for severance-related expenses for workforce reductions with respect to our restructuring plan on chips manufacturing operation for the three months ended February 29, 2016.

*Loss (gain) on disposal of long-lived assets, net.*

In response to our ongoing cost reduction action, one of the subsidiaries, Ning Xiang reduced its rented manufacturing footprint when negotiating a lease contract renewal. A loss of \$2 thousand was recognized as a result of the disposal of leasehold improvement for the three months ended February 29, 2016.

We recognized a gain of \$0.3 million on the disposal of long-lived assets for the three months ended February 28, 2015. Due to the excess capacity charges that we have suffered for a few years, considering the risk of technological obsolescence and according to the production plan built based on our sales forecast, we disposed of a certain level of our idle equipment.

Table of Contents**Other Income (Expenses)**

	February 29, 2016		Three Months Ended		February 28, 2015	
	\$	% of Revenues (in thousands)	\$	% of Revenues	\$	% of Revenues
Equity in gain (loss) from unconsolidated entities	\$ 8	0%	\$ (21)	(0)%	\$ (21)	(0)%
Interest expenses, net	(13)	(0)%	(24)	(1)%	(24)	(1)%
Other income, net	27	1%	29	1%	29	1%
Foreign currency transaction gain (loss), net	203	7%	(36)	(1)%	(36)	(1)%
Total other income (expenses), net	\$ 225	8%	\$ (52)	(1)%	\$ (52)	(1)%

**Equity in gain (loss) from unconsolidated entities.** We recognized gain and loss from our portion of the net income and net loss from SILQ, an unconsolidated entity, for the three months ended February 29, 2016 and February 28, 2015, respectively. SILQ is still in an early stage of developing business and selling products in Malaysia and therefore, its operating results have fluctuated from quarter to quarter.

**Interest expenses, net.** The decrease in interest expenses, net was primarily due to the decrease in debt balance because of the continuous repayment of debt.

**Other income, net.** Our other income consists primarily of rental income from the lease back of the second floor of our Hsinchu building to the original owner, net of related depreciation charge.

**Foreign currency transaction gain (loss), net.** We recognized a net foreign currency transaction gain of \$0.2 million for the three months ended February 29, 2016, primarily due to the appreciation of the U.S. dollar against the NT dollar from bank deposits held by Taiwan SemiLEDs and accounts receivables held by Taiwan SemiLEDs and Taiwan Bandaoti Zhaoming Co., Ltd. in currency other than the functional currency of such subsidiary, as compared to a net foreign currency transaction loss of \$36 thousand for the three months ended February 28, 2015 due to the depreciation of the U.S. dollar against the NT dollar from bank deposits held by Taiwan SemiLEDs in currency other than the functional currency of such subsidiary.

**Income Tax Expense**

	February 29, 2016	Three Months Ended	February 28, 2015
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	\$	% of Revenues (in thousands)	\$	% of Revenues
Income tax expense	\$	%	\$ 1	0%

Our effective tax rate is expected to be approximately zero for fiscal 2016, since Taiwan SemiLEDs incurred losses, and because we provided a full valuation allowance on all deferred tax assets, which consisted primarily of net operating loss carryforwards and foreign investment loss.

Despite a loss before income taxes, we recognized income tax expense of \$1 thousand for the three months ended February 28, 2015 for a subsidiary in Taiwan, which is subject to an additional 10% tax on distributable retained earnings (after statutory legal reserves) to the extent that such earnings are not distributed prior to the end of the subsequent year. This undistributed earnings surtax is determined in the subsequent year when the distribution plan relating to earnings attributable to the prior year is approved by a company's stockholders and is payable in the subsequent year. Our effective tax rate was zero for fiscal 2015, since Taiwan SemiLEDs incurred losses, and because we provided a full valuation allowance on all deferred tax assets, which consisted primarily of net operating loss carryforwards and foreign investment loss. Subsidiaries in Taiwan file their income tax returns separately.

Table of Contents*Net Loss Attributable to Noncontrolling Interests*

	Three Months Ended		Three Months Ended	
	February 29, 2016	% of Revenues (in thousands)	February 28, 2015	% of Revenues
Net loss attributable to noncontrolling interests	\$ (6)	(0)%	\$ (3)	(1)%

We recognized net losses attributable to noncontrolling interests of \$6 thousand and \$3 thousand for the three months ended February 29, 2016 and February 28, 2015, respectively, which was attributable to the share of the net losses of Ning Xiang held by the remaining noncontrolling holders. Noncontrolling interests represented a 49% of equity interest in Ning Xiang since the date of acquisition, reduced to 34% beginning in April 2013, reduced to 13% beginning in November 2013, and further reduced to 7% beginning in December 2014.

**Six Months Ended February 29, 2016 Compared to the Six Months Ended February 28, 2015**

	Six Months Ended		Six Months Ended		Change \$	Change %
	February 29, 2016	% of Revenues	February 28, 2015	% of Revenues (in thousands)		
LED chips	\$ 412	7%	\$ 1,244	17%	\$ (832)	(67)%
LED components	4,507	77%	4,760	64%	(253)	(5)%
Lighting products	855	14%	1,236	16%	(381)	(31)%
Other revenues (1)	105	2%	254	3%	(149)	(59)%
Total revenues, net	5,879	100%	7,494	100%	(1,615)	(22)%
Cost of revenues	8,118	138%	9,688	129%	(1,570)	(16)%
Gross loss	\$ (2,239)	(38)%	\$ (2,194)	(29)%	\$ (45)	2%

(1) Other includes primarily revenues attributable to the sale of epitaxial wafers, scraps and raw materials and the provision of services.

*Revenues, net*

Our revenues decreased by approximately 22% from \$7.5 million for the six months ended February 28, 2015 to \$5.9 million for the six months ended February 29, 2016. The \$1.6 million decrease in revenues reflects a \$0.8 million decrease in revenues attributable to sales of LED chips, a \$0.3 million decrease in sales of LED components, a \$0.4 million



decrease in revenues attributable to sales of lighting products, and a \$0.1 million decrease in revenues attributable to other revenues.

Revenues attributable to the sales of our LED chips represented 7% and 17% of our revenues for the six months ended February 29, 2016 and February 28, 2015, respectively. The decrease of 67% in revenues attributable to sales of LED chips was the result of a 48% decrease in the volume of LED chips sold, primarily due to a slowdown in demand, our strategic plan to place greater emphasis on the sales of LED components rather than the sales of LED chips and a business interruption as a result of the restructuring plan which has temporarily impacted our ability to serve the needs of our customers on a timely basis.

Revenues attributable to the sales of our LED components represented 77% and 64% of our revenues for the six months ended February 29, 2016 and February 28, 2015, respectively. The decrease in revenues attributable to sales of LED components was due to lower volume sold for the UV LED components product and average selling price erosion. The decrease in average selling price of LED components products by approximately 12% resulted from continued market downward pricing pressure.

Revenues attributable to the sales of lighting products represented 14% and 16% of our revenues for the six months ended February 29, 2016 and February 28, 2015, respectively. Revenues attributable to the sales of lighting products was lower for the six months ended February 29, 2016 primarily due to a slowdown in demand on LED luminaries and retrofits and fewer non-recurring project-based orders for LED lighting products compared to the six months ended February 28, 2015.

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The decrease in other revenues was primarily due to lower sales of scrap and third party ancillary equipment that we sold along with our LED products.

**Cost of Revenues**

Our cost of revenues decreased by 16% from \$9.7 million for the six months ended February 28, 2015 to \$8.1 million for the six months ended February 29, 2016. The decrease in cost of revenues was primarily due to the effect of our ongoing cost reduction and the result of lower sales volume for our LED chips for the six months ended February 29, 2016. The decrease in cost of revenues was offset by an increase in inventory write-downs, which were \$0.6 million and \$0.4 million for the six months ended February 29, 2016 and February 28, 2015, respectively.

**Gross Loss**

Our gross loss was \$2.2 million for both the six months ended February 29, 2016 and February 28, 2015. Our gross margin percentage was negative 38% for the six months ended February 29, 2016, as compared to negative 29% for the six months ended February 28, 2015, as a consequence of the reduction in revenues, primarily due to decreases in the average selling prices, which is more fully described above, and excess capacity charges for our LED chips because of lower factory utilization.

**Operating Expenses**

(in thousands)							
Research and development	\$	1,223	21%	\$	1,360	18%	\$ (137) (10)%
Selling, general and administrative		2,290	39%		4,027	54%	(1,737) (43)%
Employee termination benefits		148	2%			%	148 %
Loss (gain) on disposal of long-lived assets, net		2	0%		(287)	(4)%	289 101%
Total operating expenses	\$	3,663	62%	\$	5,100	68%	\$ (1,437) (28)%

**Research and development.** Our research and development expenses decreased from \$1.3 million for the six months ended February 28, 2015 to \$1.2 million for the six months ended February 29, 2016. The decrease was primarily due to a \$0.2 million decrease in payroll expense and other operating expenses as a result of lower headcount, and partially offset by an increase of \$0.1 million in materials and supplies used in research and development.

*Selling, general and administrative.* Our selling, general and administrative expenses decreased from \$4.0 million for the six months ended February 28, 2015 to \$2.3 million for the six months ended February 29, 2016. The decrease was mainly attributable to a \$0.8 million decrease in payroll expense and a \$0.3 million decrease in rent and other general and administrative expenses. We have started to realize the benefits of operating cost reductions, such as savings on lease and lower payroll expenses due to workforce reductions and normal attrition, and improvement in operational efficiencies through the consolidation of facilities. The decrease in selling, general and administrative was also attributable to a \$0.6 million decrease in professional service expenses, mainly legal and advisory services.

*Employee termination benefits.* Employee termination benefits of \$0.1 million were recognized for severance-related expenses for workforce reductions with respect to our restructuring plan on chips manufacturing operation for the six months ended February 29, 2016.

*Loss (gain) on disposal of long-lived assets, net.*

In response to our ongoing cost reduction action, one of the subsidiaries, Ning Xiang reduced its rented manufacturing footprint when negotiating a lease contract renewal. A loss of \$2 thousand was recorded as a result of the disposal of leasehold improvement for the six months ended February 29, 2016.

We recognized a gain of \$0.3 million, net on the disposal of long-lived assets for the six months ended February 28, 2015. Due to the excess capacity charges that we have suffered for a few years, considering the risk of technological obsolescence and according to the production plan built based on our sales forecast, we disposed of a certain level of our idle equipment.

Table of Contents*Other Income (Expenses)*

	February 29, 2016		Six Months Ended		February 28, 2015	
	\$	% of Revenues (in thousands)	\$	% of Revenues	\$	% of Revenues
Equity in loss from unconsolidated entities	\$		\$		(56)	(1)%
Interest expenses, net	(29)	(0)%	(48)	(1)%		
Other income, net	53	1%	59	1%		
Foreign currency transaction gains, net	18	0%	64	1%		
Total other income (expenses), net	\$ 42	1%	\$ 19	0%		

*Equity in loss from unconsolidated entities.* We recognized loss from our portion of the net loss from SILQ, an unconsolidated entity. SILQ is still in an early stage of developing business and selling products in Malaysia and therefore, its operating results have fluctuated from quarter to quarter.

*Interest expenses, net.* The decrease in interest expenses, net was primarily due to the decrease in debt balance because of the continuous repayment of debt.

*Other income, net.* Our other income consists primarily of rental income from the lease back of the second floor of our Hsinchu building to the original owner, net of related depreciation charge.

*Foreign currency transaction gains, net.* We recognized net foreign currency transaction gains of \$18 thousand and \$64 thousand for the six months ended February 29, 2016 and February 28, 2015, respectively, primarily due to the appreciation of the U.S. dollar against the NT dollar from bank deposits held by Taiwan SemiLEDs and accounts receivables held by Taiwan SemiLEDs and Taiwan Bandaoti Zhaoming Co., Ltd. in currency other than the functional currency of such subsidiary.

*Income Tax Expense*

	February 29, 2016		Six Months Ended		February 28, 2015	
	\$	% of Revenues (in thousands)	\$	% of Revenues	\$	% of Revenues
Income tax expense	\$		\$		1	0%

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Although we incurred a loss before income taxes for the six months ended February 29, 2016, we did not recognize any related income tax benefits. Our effective tax rate is estimated to be approximately zero for fiscal 2016, since Taiwan SemiLEDs incurred losses, and because we provided a full valuation allowance on all deferred tax assets, which consisted primarily of net operating loss carryforwards and foreign investment loss.

Despite a loss before income taxes, we recognized income tax expense of \$1 thousand for the six months ended February 28, 2015 for a subsidiary in Taiwan, which is subject to an additional 10% tax on distributable retained earnings (after statutory legal reserves) to the extent that such earnings are not distributed prior to the end of the subsequent year. This undistributed earnings surtax is determined in the subsequent year when the distribution plan relating to earnings attributable to the prior year is approved by a company's stockholders and is payable in the subsequent year. Our effective tax rate was zero for fiscal 2015, since Taiwan SemiLEDs incurred losses, and because we provided a full valuation allowance on all deferred tax assets, which consisted primarily of net operating loss carryforwards and foreign investment loss. Subsidiaries in Taiwan file their income tax returns separately.

Table of Contents*Net Loss Attributable to Noncontrolling Interests*

	February 29, 2016		Six Months Ended		February 28, 2015	
	\$	% of Revenues (in thousands)	\$	% of Revenues	\$	% of Revenues
Net loss attributable to noncontrolling interests	\$ (9)	(0)%	\$ (43)	(1)%		

We recognized net losses attributable to noncontrolling interests of \$9 thousand and \$43 thousand for the six months ended February 29, 2016 and February 28, 2015, respectively, which were attributable to the share of the net losses of Ning Xiang held by the remaining noncontrolling holders. Noncontrolling interests represented a 49% equity interest in Ning Xiang since the date of acquisition, reduced to 34% beginning in April 2013, reduced to 13% beginning in November 2013, and further reduced to 7% beginning in December 2014.

**Liquidity and Capital Resources**

As of February 29, 2016 and August 31, 2015, we had cash and cash equivalents of \$5.3 million and \$4.8 million, respectively, which were predominately held in U.S. dollar denominated demand deposits and/or money market funds. We received the cash down payment of \$3 million on December 14, 2015 for the potential sale of our headquarters building, at a sales price of \$5.2 million. The sale is scheduled to close on December 31, 2017. At any time before December 31, 2017, we have the right to cancel the agreement or sell the building to any other third party, concurrently with the repayment of all the cash balance received along with interests payable to the buyer.

Our long-term debt, which consisted of NT dollar denominated long-term notes, totaled \$3.1 million and \$3.9 million as of February 29, 2016 and August 31, 2015, respectively. These long-term notes carry variable interest rates, based on the annual time deposit rate plus a specific spread, which ranged from 1.9% to 2.0% per annum as of both February 29, 2016 and August 31, 2015, are payable in monthly installments, and are secured by our property, plant and equipment. These long-term notes do not have prepayment penalties or balloon payments upon maturity.

- The first note payable requires monthly payments of principal and interest in the amount of \$12 thousand over the 15-year term of the note with final payment to occur in May 2024 and, as of February 29, 2016, our outstanding balance on this note payable was approximately \$1.1 million.
- The second note payable requires monthly payments of principal and interest in the amount of \$17 thousand over the 15-year term of the note with final payment to occur in December 2025 and, as of February 29, 2016, our outstanding balance on this note payable was approximately \$1.8 million.

- The third note payable, which we entered in January 2013 and had been fully drawn down, requires monthly payments of principal and interest in the amount of \$77 thousand over the three-year term of the note with final payment to occur in July 2016 and, as of February 29, 2016, our outstanding balance on this note payable was approximately \$0.2 million.

Property, plant and equipment pledged as collateral for our notes payable were \$6.6 million and \$7.1 million as of February 29, 2016 and August 31, 2015, respectively.

We have incurred significant losses since inception. We have suffered losses from operations of \$13.3 million and \$24.8 million, gross losses on product sales of \$4.1 million and \$11.3 million, and net cash used in operating activities of \$4.5 million and \$15.7 million for the years ended August 31, 2015 and 2014, respectively. Loss from operations for the three and six months ended February 29, 2016 were \$2.8 million and \$5.9 million, respectively. Gross loss on product sales for the three and six months ended February 29, 2016 were \$0.8 million and \$2.2 million, respectively. Although our cash and cash equivalents increased to \$5.3 million as of February 29, 2016 due to the receipt of the \$3 million initial installment of cash consideration for the potential sale of our headquarters building, net cash used in operating activities remains the primary factor driving the decrease in our cash position. These facts and conditions raise substantial doubt about our ability to continue as a going concern. However, our management has developed a liquidity plan as summarized below, that if executed successfully, should provide sufficient liquidity to meet our obligations as they become due for a reasonable period of time, and allow the development of its core business.

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- Entered into an agreement in December 2015 with a strategic partner for the potential sale of the headquarters building located at Miao-Li, Taiwan. The total cash consideration for the potential sale is \$5.2 million to be paid in three installments, of which the initial installment of \$3 million was received on December 14, 2015. The sale is expected to close on December 31, 2017.
- Suppressing gross loss from chip sales by moving toward a fabless business model through an agreement with an ODM partner entered into on December 31, 2015. We are restructuring the chips manufacturing operation. We are exploring the opportunities to consign or sell certain equipment to our ODM partner. Part of our employees related to our chips manufacturing has transferred to our ODM partner. We also implemented certain workforce reductions with respect to our chips manufacturing operation. Following the restructuring, we expect to reduce payroll, minimize research and development activities associated with chips manufacturing operation and reduce idle capacity charges. This partnership should help us obtain a steady source of LED chips with competitive and favorable price for our packaging business, expand the production capacity for LED components, and strengthen our product portfolio and technology.
- Increasing sales of Automotive Projects in both China and India by cultivating relationships with automotive lighting developers that are outside the Company's historical distribution channels. Maintaining the number of display models at automotive lighting facilities in order to provide dealers, communities and consumers with examples of newly designed product.
- Gaining positive cash-inflow from operating activities through continuous cost reductions and the sales of new higher margin products. In the second quarter of fiscal 2016, our new module product has moved from sampling stage to mass production and begun shipment to our customers. The sales of the new module product are expected to grow steadily. The successful introduction of the new module product and the continued commercial sales of its UV LED product are expected to improve our future gross margin, operating results and cash flows. We are targeting niche markets and focused on product enhancement and developing its LED product into many other applications or devices.
- Management continues to monitor prices, work with current and potential vendors to decrease costs and, consistent with our existing contractual commitments, may decrease our activity level and capital expenditures further. This plan reflects our strategy of controlling capital costs and maintaining financial flexibility.
- Raise additional cash through further equity offerings, sales of assets and/or issuance of debt as considered necessary.



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While we believe that these liquidity plan measures will be adequate to satisfy our liquidity requirements for the twelve months ending February 28, 2017, there is no assurance that the liquidity plan will be successfully implemented. Failure to successfully implement the liquidity plan may have a material adverse effect on our business, results of operations and financial position, and may adversely affect our ability to continue as a going concern. Our consolidated financial statements do not include any adjustments related to the recoverability and classification of recorded assets or the amounts and classification of liabilities or any other adjustments that might be necessary should the Company be unable to continue as a going concern.

### *Cash Flows*

The following summary of our cash flows for the periods indicated has been derived from our unaudited interim condensed consolidated financial statements, which are included elsewhere in this Quarterly Report (in thousands):

	Six Months Ended	
	February 29, 2016	February 28, 2015
Net cash used in operating activities	\$ (1,576)	\$ (4,032)
Net cash used in investing activities	\$ (513)	\$ (696)
Net cash provided by (used in) financing activities	\$ 2,309	\$ (918)

### *Cash Flows Used In Operating Activities*

Net cash used in operating activities for the six months ended February 29, 2016 and February 28, 2015 was \$1.6 million and \$4.0 million, respectively. The cash flows used in operating activities for the six months ended February 29, 2016 was \$2.4 million lower, primary attributable to the collection of accounts receivable and a decrease in cash used to pay for materials and supplies used in production.

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***Cash Flows Used In Investing Activities***

Net cash used in investing activities for the six months ended February 29, 2016 was \$0.5 million, consisting primarily of purchases of machinery and equipment and payments for the build out of our manufacturing facility and leasehold improvements.

Net cash used in investing activities for the six months ended February 28, 2015 was \$0.7 million, consisting primarily of purchases of \$1 million in property, plant and equipment representing primarily the purchases of machinery and equipment and payments for leasehold improvements and payments of \$0.1 million for development of intangible assets, offset by return of refundable deposits for leased properties.

***Cash Flows Provided By (Used In) Financing Activities***

Net cash provided by financing activities for the six months ended February 29, 2016 was \$2.3 million, consisting of the receipt of the \$3.0 million initial installment of cash consideration for the potential sale of our headquarters building, offset in part by the payments on long-term debt of \$0.7 million.

Net cash used in financing activities for the six months ended February 28, 2015 was \$0.9 million, primarily attributable to the payments on long-term debt.

**Capital Expenditures**

We had capital expenditures of \$0.5 million and \$1.0 million for the six months ended February 29, 2016 and February 28, 2015, respectively. Our capital expenditures consisted primarily of the purchases of machinery and equipment, construction in progress, prepayments for our manufacturing facilities and prepayments for equipment purchases. We expect to continue investing in capital expenditures in the future as we expand our business operations and invest in such expansion of our production capacity as we deem appropriate under market conditions and customer demand. However, in response to controlling capital costs and maintaining financial flexibility, our management continues to monitor prices and, consistent with its existing contractual commitments, may decrease its activity level and capital expenditures as appropriate.

**Off-Balance Sheet Arrangements**

As of February 29, 2016, we did not engage in any off-balance sheet arrangements. We do not have any interests in variable interest entities.

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

Not applicable.

**Item 4. Controls and Procedures**

**Evaluation of disclosure controls and procedures**

Our management, with the participation of our chief executive officer, or CEO, and our chief financial officer, or CFO, has evaluated the effectiveness of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, as of February 29, 2016. In designing and evaluating the disclosure controls and procedures, management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. In addition, the design of disclosure controls and procedures must reflect the fact that there are resource constraints and that management is required to apply its judgment in evaluating the benefits of possible controls and procedures relative to their costs.

Based upon the aforementioned evaluation, our CEO and CFO have concluded that, as of February 29, 2016, our disclosure controls and procedures are designed at a reasonable assurance level and are effective to provide reasonable assurance that information required to be disclosed in our Exchange Act reports is recorded, processed, summarized and reported within the time periods specified in the SEC rules and forms and that such information is accumulated and communicated to our management, including our CEO and CFO, as appropriate to allow timely decisions regarding required disclosure.

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**Changes in internal control over financial reporting**

There were no changes in our internal control over financial reporting that occurred during the quarter ended February 29, 2016 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**

Due to the complex technology required to compete successfully in the LED industry, participants in our industry are often engaged in significant intellectual property licensing arrangements, negotiations, disputes and litigation. We are directly or indirectly involved from time to time and may be named in various other claims or legal proceedings arising in the ordinary course of our business or otherwise.

There were no material pending legal proceedings or claims as of February 29, 2016.

**Item 1A. Risk Factors**

Except for the following, there are no material changes related to risk factors from the risk factors described in Item 1A Risk Factors in Part I of our 2015 Annual Report.

*Our restructuring plan and ongoing cost and capital expenditure reduction efforts may not be effective, might have unintended consequences, and could negatively impact our business.*

We have implemented certain actions to accelerate operating cost reductions and improve operational efficiencies in response to changes in the economic environment, our industry and demand. In connection with the implementation of our cost and capital expenditure reduction programs, we developed a strategic plan to address areas of business where we see the best opportunity for the most profitable sales of our LED products, which includes primarily a focus on the UV LED market segment and placing a greater emphasis on the sale of LED components in selected markets where pricing pressure is less significant, and pursuing new market opportunities that leverage our core competencies. We continue to monitor prices and, consistent with our existing contractual commitments, may decrease our activity level and capital expenditures further. This plan reflects our strategy of controlling capital costs and maintaining financial flexibility. We also disposed of a certain level of our idle equipment to reduce the excess capacity charges that we have suffered for a few years. In addition, to provide sufficient liquidity to meet our obligations as they become due for a reasonable period of time, we reduced our capital expenditures as appropriate. The cost reductions plan is further enhanced through the fabless business model in which we implemented certain workforce reductions and are exploring the opportunities to consign or sell certain equipment related to the manufacturing of vertical LED chips to our ODM partner or others, in order to reduce the idle

capacity charges, minimize our research and development activities associated with chips manufacturing operation.

Despite our planning, some cost-cutting and capital expenditure reduction measures could have unexpected negative consequences. As part of our ongoing cost reduction efforts, we may reduce our work force further and experience additional attrition, which may expose us to legal claims against us and loss of necessary human resources. If we face costly employee or contract termination claims, our operations and prospects could be harmed. Furthermore, capital expenditure reduction could adversely impact our future sales. While our cost and capital expenditure reduction efforts reduced, or are expected to reduce, our operating costs as well as capital expenditure, we cannot be certain that all efforts will be successful or that we will not be required to implement additional actions to structure our business to operate in a cost-effective manner in the future. Currently both our ODM partner and SemiLEDs are required to make significant commitments of resources to the extensive qualification process with chips before the ODM partner is able to ODM vertical chips for us using our vertical technology. However, qualification of the numerous products have caused and could continue to cause delays sufficient to have a material adverse effect on our operating results.

***We may be unable to collect any liquidated damages that we may be entitled to if the buyer fails to purchase the shares, which could impact the viability of our liquidity plan.***

We entered into a definitive common stock purchase agreement effective December 18, 2014 with Mr. Xiaoqing Han, the Chairman and CEO of Beijing Xiaoqing Environmental Protection Group. The transaction has not closed due to Mr. Han's difficulty in transferring funds from China. To date, we have only received approximately \$261 thousand of the \$5 million purchase price. Pursuant to the terms of the agreement, if Mr. Han did not purchase the shares before February 25, 2015, then, upon our written request, he is required to pay us \$3 million in liquidated damages, plus the legal fees incurred by us. On June 29, 2015, we provided written notice to Mr. Han informing him that he is in breach of the Agreement for failure to provide full payment before February 25, 2015 and demanding that he remit the balance of the purchase price by July 16, 2015 or, alternatively, the \$3 million in liquidated damages. On July 6, 2015, Mr. Han replied in a letter that he acknowledged receiving of the payment demand notice and the balance he owed under the Agreement. He also expressed his intent to continue with the terms and conditions in the Agreement. However, he was unable to transfer personal investment funds out of China. He requested us granting him an extension of time. Our Board has rejected his request of granting him more time to execute the Agreement and initiated legal actions to collect the amounts owed under the Agreement. On April 11, 2016, we engaged a Delaware law firm to file a complaint for breach of contract in the Delaware Court of Chancery. We intend to sue Mr. Han for breach of contract in consequence of his failure to transfer full purchase price from China. There can be no assurance that Mr. Han will be able to transfer the funds needed to complete the purchase. Similarly, if the sale does not close and we obtain a judgment for the \$3 million in liquidated damages, we may be unable to collect any judgment in China or elsewhere.

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*We may fail to qualify for continued listing on NASDAQ which could make it more difficult for investors to sell their shares.*

In December 2010, our common stock was initially approved for listing on the NASDAQ Global Select Market but was transferred to the NASDAQ Capital Market effective November 5, 2015. To maintain that listing, we must satisfy the continued listing requirements of NASDAQ for inclusion in the NASDAQ Capital Market, including among other things, a minimum stockholders' equity of \$2.5 million and a minimum bid price for our common stock of \$1.00 per share. On March 18, 2015, the closing minimum bid price of our common stock dropped below \$1.00. On April 30, 2015, we received a letter from the NASDAQ Stock Market notifying us that we were not in compliance with the minimum bid price requirement set forth in NASDAQ Listing Rule 5450(a)(1) for continued listing on the NASDAQ Global Select Market. The NASDAQ Listing Rules require listed securities to maintain a minimum bid price of \$1.00 per share and, due to our common stock having traded for 30 consecutive business days below the minimum closing bid price requirement, we no longer met that requirement at that time. In accordance with NASDAQ Listing Rule 5810(c)(3)(A), we were provided a cure period until October 27, 2015, to regain compliance with NASDAQ Listing Rule 5450(a)(1). However, we failed to regain compliance during this grace period. On November 2, 2015, we received approval from the Listing Qualifications Department of the NASDAQ to transfer the listing of our common stock from the NASDAQ Global Select Market to the NASDAQ Capital Market, effective at the opening of business on November 5, 2015. Following the transfer of the listing, we have been granted an additional grace period until April 25, 2016 in accordance with NASDAQ Listing Rule 5810(c)(3)(F), to regain compliance with the minimum bid price requirement. To regain compliance and qualify for continued listing on the NASDAQ Capital Market, our common stock is required to have a closing bid price of at least \$1.00 for a minimum of 10 consecutive business days.

At our 2016 annual meeting on April 12, 2016, our shareholders approved an amendment of our restated certificate of incorporation, as amended, to effect a reverse stock split of our common stock at a ratio determined by the board of directors within a specified range, without reducing the authorized number of shares of common stock. We expect to effect a 1-for-10 reverse stock split as of the close of business on April 15, 2016. However, there can be no assurance that we will be able to implement our plan, regain and maintain compliance with the continued listing requirements or that our common stock will not be delisted from NASDAQ in the future. If our common stock is delisted by NASDAQ, we expect prices for our common stock to be quoted on the Pink Sheets LLC or the OTC Bulletin Board. Under such circumstances, stockholders may find it more difficult to sell, or to obtain accurate quotations, for our common stock, and our common stock would become substantially less attractive to certain purchasers such as financial institutions, hedge funds and other similar investors. There is no assurance, however, that prices for our common stock would be quoted on one of these other trading systems or that an active trading market for our common stock would thereafter exist, which would materially and adversely impact the market value of our common stock.

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

**Unregistered Sales of Equity Securities**

None.

**Repurchases**

None.

**Item 3. Defaults Upon Senior Securities**

None.

**Item 4. Mine Safety Disclosures**

Not applicable.

**Item 5. Other Information**

None.

**Item 6. Exhibits**

See Index to Exhibits at end of report.





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**SIGNATURES**

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

SEMILEDs CORPORATION  
(Registrant)

Dated: April 13, 2016

By: /s/ Christopher Lee  
Name: Christopher Lee  
Title: Chief Financial Officer  
(Principal Financial Officer and Principal Accounting Officer)

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**INDEX TO EXHIBITS**

<b>Exhibit No.</b>	<b>Description</b>
10.1	Building Sale and Purchase Agreement between SemiLEDs Optoelectronics Co., Ltd. and Formosa Epitaxy Incorporation dated December 10, 2015 (translation)
31.1	Certification of Chief Executive Officer Pursuant to Exchange Act Rule 13a-14(a)/15d-14(a) as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
31.2	Certification of Chief Financial Officer Pursuant to Exchange Act Rule 13a-14(a)/15d-14(a) as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
32.1	Certification pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
32.2	Certification pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document