UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended September 30, 2015

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 000-30941

AXCELIS TECHNOLOGIES, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

108 Cherry Hill Drive Beverly, Massachusetts 01915

(Address of principal executive offices, including zip code)

(978) 787-4000

(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 x No o .

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 during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes x No o.

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

Large accelerated filer o

Non-accelerated filer o (Do not check if a smaller reporting company)

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

As of October 30, 2015 there were 115,712,016 shares of the registrant's common stock outstanding.

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Consolidated Statements of Operations for the three and nine months ended September 30, 2015 and 2014

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(IRS Employer Identification No.)

34-1818596

Smaller reporting company o

Accelerated filer x

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PART 1—FINANCIAL INFORMATION

Item 1. Financial Statements.

Axcelis Technologies, Inc. Consolidated Statements of Operations (In thousands, except per share amounts) (Unaudited)

| | | Three months ended September 30, | | | | Nine mon Septem | | ed |
|--------------------------------------|----------|-------------------------------------|----|---------|----|--------------------|----|----------|
| | | 2015 | | 2014 | | 2015 | | 2014 |
| Revenue | | | | | | | | |
| Product | \$ | 73,795 | \$ | 32,360 | \$ | 214,073 | \$ | 122,170 |
| Services | | 5,522 | | 6,171 | | 16,964 | | 18,351 |
| Total revenue | | 79,317 | | 38,531 | | 231,037 | | 140,521 |
| Cost of revenue | | | | | | | | |
| Product | | 45,698 | | 18,823 | | 137,443 | | 73,646 |
| Services | | 4,440 | | 4,564 | | 13,861 | | 15,507 |
| Total cost of revenue | | 50,138 | | 23,387 | | 151,304 | | 89,153 |
| Gross profit | | 29,179 | | 15,144 | | 79,733 | | 51,368 |
| Operating expenses | | | | | | | | |
| Research and development | | 8,581 | | 7,950 | | 24,679 | | 26,052 |
| Sales and marketing | | 6,322 | | 4,891 | | 17,808 | | 15,404 |
| General and administrative | | 6,584 | | 5,380 | | 18,916 | | 18,356 |
| Restructuring charges | | — | | 2,288 | | 18 | | 2,648 |
| Total operating expenses | | 21,487 | | 20,509 | | 61,421 | | 62,460 |
| Income (loss) from operations | | 7,692 | | (5,365) | | 18,312 | | (11,092) |
| Other (expense) income | | | | | | | | |
| Interest income | | 7 | | 2 | | 16 | | 6 |
| Interest expense | | (1,274) | | (304) | | (3,627) | | (812) |
| Other, net | | (167) | | 1,352 | | (551) | | 1,282 |
| Total other (expense) income | | (1,434) | | 1,050 | | (4,162) | | 476 |
| Income (loss) before income taxes | | 6,258 | | (4,315) | | 14,150 | | (10,616) |
| Income taxes | | 157 | | 389 | | 298 | | 814 |
| Net income (loss) | \$ | 6,101 | \$ | (4,704) | \$ | 13,852 | \$ | (11,430) |
| Net income (loss) per share Basic | \$ | 0.05 | \$ | (0.04) | \$ | 0.12 | \$ | (0.10) |
| Dasic | <u>⊅</u> | 0.05 | Φ | (0.04) | Φ | 0.12 | φ | (0.10) |

| Diluted | \$ 0.05 | \$ (0.04) | \$ 0.11 | \$ (0.10) |
|--|-------------|--------------|------------|--------------|
| Shares used in computing net income (loss) per share | | | | |
| Basic weighted average common shares | 114,799 | 111,701 | 113,918 | 111,191 |
| Diluted weighted average common shares | 121,862 | 111,701 | 120,620 | 111,191 |
| | | | | |

See accompanying Notes to these Consolidated Financial Statements

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Axcelis Technologies, Inc. Consolidated Statements of Comprehensive Income (Loss) (In thousands) (Unaudited)

| | Three months ended September 30, | | | | | Nine mon Septem | | |
|--|-------------------------------------|---------|----|-----------|----|--------------------|----------------|----------|
| | | 2015 | | 2015 2014 | | | 2015 | 2014 |
| Net income (loss) | \$ | 6,101 | \$ | (4,704) | \$ | 13,852 | \$ (11,430) | |
| Other comprehensive income (loss): | | | | | | | | |
| Foreign currency translation adjustments | | (1,672) | | (2,950) | | (2,353) | (2,868) | |
| Amortization of actuarial losses from pension plan | | 18 | | 6 | | 56 | 18 | |
| Total other comprehensive (loss) | | (1,654) | | (2,944) | | (2,297) | (2,850) | |
| Comprehensive income (loss) | \$ | 4,447 | \$ | (7,648) | \$ | 11,555 | \$ (14,280) | |

See accompanying Notes to these Consolidated Financial Statements

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Axcelis Technologies, Inc. Consolidated Balance Sheets (In thousands, except per share amounts) (Unaudited)

~~

| | September 30, 2015 | | De | ecember 31, 2014 |
|--|-----------------------|---------|----|---------------------|
| ASSETS | | | | |
| Current assets | | | | |
| Cash and cash equivalents | \$ | 79,871 | \$ | 30,753 |
| Restricted cash | | | | 825 |
| Accounts receivable, net | | 38,674 | | 42,794 |
| Inventories, net | | 120,067 | | 104,063 |
| Prepaid expenses and other current assets | | 10,030 | | 6,700 |
| Total current assets | | 248,642 | | 185,135 |
| Property, plant and equipment, net | | 29,985 | | 30,464 |
| Long-term restricted cash | | 61 | | |
| Other assets | | 14,111 | | 12,055 |
| Total assets | \$ | 292,799 | \$ | 227,654 |
| | | | | |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | | | |
| Current liabilities | | | | |
| Accounts payable | \$ | 24,350 | \$ | 21,605 |
| Accrued compensation | | 8,262 | | 4,232 |
| Warranty | | 3,532 | | 1,352 |
| Income taxes | | 262 | | 196 |
| Deferred revenue | | 9,400 | | 6,782 |
| Current portion of long-term debt | | | | 14,530 |
| Other current liabilities | | 4,014 | | 3,401 |
| Total current liabilities | | 49,820 | | 52,098 |
| | | | | |
| Sale leaseback obligation | | 47,586 | | _ |
| Long-term deferred revenue | | 736 | | 449 |
| Other long-term liabilities | | 6,541 | | 6,755 |
| Total liabilities | | 104,683 | | 59,302 |
| | | | | |
| Commitments and contingencies (Note 13) | | | | |
| Stockholders' equity | | | | |
| Preferred stock, \$0.001 par value, 30,000 shares authorized; none issued or outstanding | | | | _ |
| Common stock, \$0.001 par value, 300,000 shares authorized; 115,721 shares issued and 115,601 shares | | 116 | | 113 |
| | | | | |

| outstanding at September 30, 2015; 112,849 shares issued and 112,729 shares outstanding at | | |
|--|------------|------------|
| December 31, 2014 | | |
| Additional paid-in capital | 527,274 | 519,068 |
| Treasury stock, at cost, 120 shares at September 30, 2015 and December 31, 2014 | (1,218) | (1,218) |
| Accumulated deficit | (337,035) | (350,887) |
| Accumulated other comprehensive (loss) income | (1,021) | 1,276 |
| Total stockholders' equity | 188,116 | 168,352 |
| Total liabilities and stockholders' equity | \$ 292,799 | \$ 227,654 |
| | | |

See accompanying Notes to these Consolidated Financial Statements

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Axcelis Technologies, Inc. Consolidated Statements of Cash Flows (In thousands) (Unaudited)

| | Nine months ended September 30, | | | ed |
|---|------------------------------------|----------|----|----------|
| | | 2015 | | 2014 |
| Cash flows from operating activities | | | | |
| Net income (loss) | \$ | 13,852 | \$ | (11,430) |
| Adjustments to reconcile net income (loss) to net cash provided by (used for) operating activities: | | | | |
| Depreciation and amortization | | 3,608 | | 3,441 |
| Deferred taxes | | 84 | | 434 |
| Stock-based compensation expense | | 4,467 | | 3,779 |
| Provision for excess and obsolete inventory | | 835 | | 590 |
| Changes in operating assets & liabilities | | | | |
| Accounts receivable | | 3,541 | | 6,164 |
| Inventories | | (19,096) | | (13,732) |
| Prepaid expenses and other current assets | | (3,637) | | 351 |
| Accounts payable and other current liabilities | | 9,849 | | (4,849) |
| Deferred revenue | | 2,967 | | 372 |
| Income taxes | | 73 | | 151 |
| Other assets and liabilities | | (4,120) | | 976 |
| Net cash provided by (used for) operating activities | | 12,423 | | (13,753) |
| Cash flows from investing activities | | | | |
| Expenditures for property, plant and equipment | | (1,329) | | (710) |
| Net cash used for investing activities | | (1,329) | | (710) |
| Cash flows from financing activities | | | | |
| Decrease in restricted cash | | 764 | | |
| Financing fees and other expenses | | (847) | | _ |
| Proceeds from exercise of stock options | | 3,537 | | 2,058 |
| Principal payments on term loan | | (14,530) | | (185) |
| Principal payments on sale leaseback obligation | | (392) | | (|
| Proceeds from sale leaseback obligation | | 48,940 | | _ |
| Proceeds from Employee Stock Purchase Plan | | 213 | | 227 |
| Net cash provided by financing activities | | 37,685 | | 2,100 |
| Effect of exchange rate changes on cash and cash equivalents | | 339 | | (1,391) |
| Net increase (decrease) in cash and cash equivalents | | 49,118 | | (13,754) |
| Cash and cash equivalents at beginning of period | | 30,753 | | 46,290 |
| Cash and cash equivalents at end of period | \$ | 79,871 | \$ | 32,536 |
| cash and cash equivalents at end of period | Ψ | / 5,0/ 1 | Ψ | 52,550 |

See accompanying Notes to these Consolidated Financial Statements

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Axcelis Technologies, Inc. Notes to Consolidated Financial Statements (Unaudited)

Note 1. Nature of Business

Axcelis Technologies, Inc. ("Axcelis" or the "Company") was incorporated in Delaware in 1995, and is a worldwide producer of ion implantation and other processing equipment used in the fabrication of semiconductor chips in the United States, Europe and Asia. In addition, the Company provides extensive aftermarket service and support, including spare parts, equipment upgrades and maintenance services to the semiconductor industry.

The accompanying unaudited consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles for interim financial information and with the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by generally accepted accounting principles for complete financial statements. In the opinion of management, all adjustments which are of a normal recurring nature and considered necessary for a fair presentation of these financial statements have been included. Operating results for the interim periods presented are not necessarily indicative of the results that may be expected for other interim periods or for the year as a whole.

The balance sheet at December 31, 2014 has been derived from the audited financial statements at that date but does not include all of the information and footnotes required by generally accepted accounting principles for complete financial statements. For further information, refer to the consolidated financial statements and footnotes thereto included in Axcelis Technologies, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2014.

Note 2. Stock-Based Compensation

The Company maintains the Axcelis Technologies, Inc. 2012 Equity Incentive Plan (the "2012 Equity Plan"), which became effective on May 2, 2012, and permits the issuance of options, restricted stock, restricted stock units and performance awards to selected employees, directors and consultants of the Company. The Company's 2000 Stock Plan (the "2000 Stock Plan"), expired on May 1, 2012 and no new grants may be made under that plan after that date. However, unexpired awards granted under the 2000 Stock Plan prior to their expiration remain outstanding and subject to the terms of the 2000 Stock Plan. The Company also maintains the Axcelis Technologies, Inc. Employee Stock Purchase Plan (the "ESPP"), an Internal Revenue Code Section 423 plan.

The 2012 Equity Plan and the ESPP are more fully described in Note 13 to the consolidated financial statements in the Company's 2014 Annual Report on Form 10-K.

The Company recognized stock-based compensation expense of \$1.4 million and \$1.6 million for the three month periods ended September 30, 2015 and 2014, respectively. The Company recognized stock-based compensation expense of \$4.5 million and \$3.8 million for the nine month periods ended September 30, 2015 and 2014, respectively. These amounts include compensation expense related to restricted stock units, non-qualified stock options and stock to be issued to participants under the ESPP.

Note 3. Sale of Corporate Headquarters and Related Leaseback

On January 30, 2015, the Company sold its corporate headquarters facility to Beverly Property Owner LLC ("Beverly Properties"), an affiliate of Middleton Partners, based in Northbrook, Illinois, for the purchase price of \$48.9 million. As part of this sale, the Company also entered into a 22-year lease agreement with Beverly Properties, with the right to extend the term of the lease for five successive periods of five years each. The Company will pay rent of \$4.7 million for the first year of the lease, with increased annual rent payments thereafter that will increase to \$7.3 million in year twenty-two. At the time of this sale, the Company discharged an outstanding term loan of \$14.4 million, with related accrued interest, and paid a pre-payment penalty to Northern Bank and Trust Company for a total payment of \$14.8 million. The Company accounted for the sale leaseback transaction as a financing arrangement for financial reporting purposes, as required by applicable accounting standards in light of the Company's continuing involvement with the property, given the \$5.9 million collateralized letter of credit requirement. See Note 10 for further discussion. As such, at the time of sale, the Company recorded a financing obligation in the amount of \$48.9 million, less a pre-paid rent amount of \$0.4 million, for a net liability of \$48.5 million. Upon the adoption of Accounting Standards Update 2015-03, the Company reduced the carrying value of the financing obligation for debt issuance costs related to this transaction by \$0.9 million, for a net liability of \$47.6 million. See Note 14 for discussion regarding the adoption of the UC ompany classified the liability as long-term due to initial rent payments relating only to interest with future principal payments occurring outside of one year. The Company retained the historical costs of the property and the related accumulated depreciation on its financial books within property, plant and equipment and will continue to depreciate the property for financial reporting

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effective interest method. The implicit interest rate on the associated cash flows during the initial 22 year lease term is 10.65%. See Note 13 for the schedule of contractual lease payments relating to the lease obligation.

The Company does not anticipate any federal or state tax liability associated with the taxable gain on the sale of the building due to its current level of net operating loss carry forwards and has not provided for any federal or state tax expense.

Note 4. Computation of Net Income (Loss) per Share

Basic income (loss) per share is computed by dividing net income (loss) available to common stockholders (the numerator) by the weighted-average number of common shares outstanding (the denominator) for the period. The computation of diluted income (loss) per share is similar to basic income per share, except that the denominator is increased to include the number of additional common shares that would have been outstanding if the potentially dilutive common shares from stock options and restricted stock units (RSUs) had been issued, calculated using the treasury stock method.

The components of net income (loss) per share are as follows:

| | Three months ended September 30, | | | | Nine mon Septem | | | |
|--|-------------------------------------|---------|--------|---------------|--------------------|---------|----|----------|
| | 20 |)15 | | 2014 | | 2015 | | 2014 |
| | <i>.</i> | 6 4 6 4 | (in th | ousands, exce | pt per s | | ¢ | (11,100) |
| Net income (loss) available to common stockholders | \$ | 6,101 | \$ | (4,704) | \$ | 13,852 | \$ | (11,430) |
| | | | | | | | | |
| Weighted average common shares outstanding used in computing | | | | | | | | |
| basic income (loss) per share | | 114,799 | | 111,701 | | 113,918 | | 111,191 |
| Incremental options and RSUs | | 7,063 | | | | 6,702 | | |
| Weighted average common shares outstanding used in computing | | | | | | | | |
| diluted net income (loss) per share | | 121,862 | | 111,701 | | 120,620 | | 111,191 |

| Net income (loss) per share | | | | |
|-----------------------------|------------|--------------|------------|--------------|
| Basic | \$ 0.05 | \$ (0.04) | \$ 0.12 | \$ (0.10) |
| Diluted | \$ 0.05 | \$ (0.04) | \$ 0.11 | \$ (0.10) |

The Company incurred net losses for the three and nine month periods ended September 30, 2014, and has excluded the incremental shares attributable to outstanding stock options and restricted stock units from the calculation of net loss per share because the effect would have been anti-dilutive. The following table sets forth the number of incremental shares excluded from the calculation above:

| | Three months September | | Nine month Septembe | |
|--|---------------------------|----------|------------------------|-------|
| | 2015 | 2014 | 2015 | 2014 |
| | | (in thou | sands) | |
| Incremental shares excluded from the calculation of net loss per share | <u> </u> | 4,296 | | 4,550 |

Note 5. Accumulated Other Comprehensive Income (Loss)

The following table presents the changes in accumulated other comprehensive income (loss), net of tax, by component for the nine months ended September 30, 2015:

| | Foreign currency |] | Defined benefit pension plan | Total |
|--|-------------------------|----|---------------------------------|---------------|
| | | | (in thousands) | |
| Balance at December 31, 2014 | \$ 1,920 | \$ | (644) | \$ 1,276 |
| Other comprehensive (loss) and pension reclassifications (1) | (2,353) | | 56 | (2,297) |
| Balance at September 30, 2015 | \$ (433) | \$ | (588) | \$ (1,021) |

(1) Pension amount presented before taxes as the tax effect was not material to the consolidated financial statements.

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Note 6. Inventories, net

The components of inventories are as follows:

| | Sej | otember 30, 2015 | D | ecember 31, 2014 |
|------------------------------------|-----|---------------------|---------|---------------------|
| | | (in thou | ısands) | |
| Raw materials | \$ | 71,940 | \$ | 65,723 |
| Work in process | | 30,792 | | 22,358 |
| Finished goods (completed systems) | | 17,335 | | 15,982 |
| | \$ | 120,067 | \$ | 104,063 |

When recorded, inventory reserves are intended to reduce the carrying value of inventories to their net realizable value. The Company establishes inventory reserves when conditions exist that indicate inventory may be in excess of anticipated demand or is obsolete based upon assumptions about future demand for the Company's products or market conditions. The Company regularly evaluates the ability to realize the value of inventories based on a combination of factors including the following: forecasted sales or usage, estimated product end of life dates, estimated current and future market value and new product introductions. Purchasing and usage alternatives are also explored to mitigate inventory exposure. As of September 30, 2015 and December 31, 2014, inventories are stated net of inventory reserves of \$17.3 million and \$23.6 million, respectively.

During the three months and nine months ended September 30, 2014, the Company recorded a charge to cost of sales of \$0.6 million and \$1.0 million, respectively, due to production levels below normal capacity.

Note 7. Restructuring Charges

In 2014, the Company had severance and other costs related to reductions in force. As of September 30, 2015, the Company satisfied its restructuring liability which consisted primarily of severance and related costs and were included in other current liabilities. The related activity is as follows:

| | (in | thousands) |
|-------------------------------|-----|------------|
| Balance at December 31, 2014 | \$ | 481 |
| Severance and related costs | | 18 |
| Other adjustments | | (20) |
| Cash payments | | (479) |
| Balance at September 30, 2015 | \$ | |

Note 8. Product Warranty

The Company generally offers a one year warranty for all of its systems, the terms and conditions of which vary depending upon the product sold. For all systems sold, the Company accrues a liability for the estimated cost of standard warranty at the time of system shipment and defers the portion of systems revenue attributable to the fair value of non-standard warranty. Costs for non-standard warranty are expensed as incurred. Factors that affect the Company's warranty liability include the number of installed units, historical and anticipated product failure rates, material usage and service labor costs. The Company periodically assesses the adequacy of its recorded liability and adjusts the amount as necessary.

The changes in the Company's standard product warranty liability are as follows:

| | Nine mon Septem | | |
|--|--------------------|---------|---------|
| | 2015 | | 2014 |
| | (in thou | isands) | |
| Balance at January 1 (beginning of year) | \$ 1,526 | \$ | 1,428 |
| Warranties issued during the period | 3,543 | | 1,028 |
| Settlements made during the period | (1,611) | | (1,511) |
| Changes in estimate of liability for pre-existing warranties during the period | 345 | | 264 |
| Balance at September 30 (end of period) | \$ 3,803 | \$ | 1,209 |
| | | | |
| Amount classified as current | \$ 3,532 | \$ | 1,160 |
| Amount classified as long-term | 271 | | 49 |
| Total warranty liability | \$ 3,803 | \$ | 1,209 |
| | | | |

Note 9. Fair Value Measurements

Certain of the assets and liabilities on the Company's consolidated balance sheets are reported at their "Fair Value". Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date.

(a) Fair Value Hierarchy

The accounting guidance for fair value measurement requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The standard establishes a fair value hierarchy based on the level of independent, objective evidence surrounding the inputs used to measure fair value. A financial instrument's categorization within the fair value hierarchy is based upon the lowest level of input that is significant to the fair value measurement. The fair value hierarchy is as follows:

Level 1 - applies to assets or liabilities for which there are quoted prices in active markets for identical assets or liabilities.

Level 2 - applies to assets or liabilities for which there are inputs other than quoted prices that are observable for the asset or liability, such as quoted prices for similar assets or liabilities in active markets; quoted prices for identical assets or liabilities in markets with insufficient volume or infrequent transactions (less active markets); or model-derived valuations in which significant inputs are observable or can be derived principally from, or corroborated by, observable market data.

Level 3 - applies to assets or liabilities for which there are unobservable inputs to the valuation methodology that are significant to the measurement of the fair value of the assets or liabilities.

(b) Assets Measured at Fair Value

The Company's money market funds are included in cash and cash equivalents in the consolidated balance sheets, and are considered a level 1 investment as they are valued at quoted market prices in active markets. The Company's sale leaseback obligation relating to the sale of our corporate headquarters is carried at amortized cost, which approximates fair value based on an implied borrowing rate of 10.65%. The underlying cash flow associated with our lease payments is being applied to both an interest and principal component using the effective interest method over the associated lease term. The liability is categorized as level 3 within the fair value hierarchy. The Company's term loan as of December 31, 2014 was carried at amortized cost, which approximated fair value, based on market pricing of similar debt instruments and was categorized as level 2 within the fair value hierarchy.

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The following table sets forth the Company's assets and liabilities by level within the fair value hierarchy:

| I | Level 1 | | Level 2 | | Level 3 | | Total |
|----|---------|---------------------------|--|--|---|---|---|
| | | | (in tho | usands) | | | |
| | | | | | | | |
| | | | | | | | |
| \$ | 63,614 | \$ | | \$ | — | \$ | 63,614 |
| | | | | | | | |
| \$ | — | \$ | | \$ | 47,586 | \$ | 47,586 |
| | | | | | | | |
| I | Level 1 | | Level 2 | | Level 3 | | Total |
| | | | (in tho | usands) | | | |
| | | | | | | | |
| | | | | | | | |
| \$ | 7,004 | \$ | — | \$ | | \$ | 7,004 |
| | | | | | | | |
| ¢ | | ¢ | 14 520 | \$ | | ¢ | 14,530 |
| | \$ | \$ Level 1 \$ 7,004 | \$ 63,614 \$ \$ \$ <u>Level 1</u> \$ 7,004 \$ | Fair Value M Level 1 Level 2 (in tho \$ 63,614 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ Level 1 Level 2 (in tho \$ 7,004 \$ | Fair Value Measuren Level 1 Level 2 (in thousands) \$ 63,614 \$ — \$ \$ 63,614 \$ — \$ \$ 63,614 \$ — \$ \$ 0 \$ — \$ \$ 0 \$ — \$ December 31, 201 Fair Value Measuren 1 1 Level 1 Level 2 (in thousands) (in thousands) \$ 7,004 \$ — \$ | (in thousands) \$ 63,614 \$ \$ \$ \$ 47,586 <u>December 31, 2014</u> <u>Fair Value Measurements</u> <u>Level 1 Level 2 Level 3</u> (in thousands) \$ 7,004 \$ \$ | Fair Value Measurements Level 1 Level 2 Level 3 (in thousands) (in thousands) \$ 63,614 \$ — \$ — \$ \$ 63,614 \$ — \$ — \$ — \$ \$ 63,614 \$ — \$ — \$ — \$ \$ 63,614 \$ — \$ — \$ — \$ \$ 63,614 \$ — \$ — \$ — \$ \$ 0.63,614 \$ — \$ 47,586 \$ \$ December 31, 2014 Fair Value Measurements |

The carrying amounts reflected in the consolidated balance sheets for cash and cash equivalents (which are comprised primarily of deposit and investment accounts), accounts receivable, prepaid expenses and other current and non-current assets, accounts payable and accrued expenses approximate fair value due to their short-term maturities.

Note 10. Financing Arrangements

Term Loan

On February 2, 2015, in connection with the sale of our headquarters facility, the Company repaid the outstanding balance on a term loan from Northern Bank and Trust Company of \$14.4 million and related accrued interest of \$0.1 million as well as a 2.0% prepayment penalty of \$0.3 million for a total payment of \$14.8 million. See Note 3 above for further discussion.

Sale Leaseback Obligation

On January 30, 2015, the Company sold its corporate headquarters facility to Beverly Property Owner LLC, an affiliate of Middleton Partners, based in Northbrook, Illinois, for the purchase price of \$48.9 million. As part of the sale, the Company also entered into a 22-year lease agreement with Beverly Properties. The sale leaseback is accounted for as a financing arrangement for financial reporting and, as such, the Company has recorded a financing obligation of \$47.6 million as of September 30, 2015. The associated lease payments include both an interest component and payment of principal, with the underlying liability being extinguished at the end of the original lease term. The Company posted a collateralized security deposit of \$5.9 million in the form of an irrevocable letter of credit at the time of the closing. See Note 3 above for further discussion.

Credit Facility

The Company had a revolving credit facility with Silicon Valley Bank, dated October 31, 2013, which the Company terminated in October 2015. Under this revolving credit facility, the Company had the ability to borrow up to \$10.0 million on a revolving basis during its two year term. The Company's ability to borrow under this line of credit was limited to 80% of the then current amount of qualified accounts receivable. As of September 30, 2015, the Company had not drawn down on the line of credit, although a portion of the availability was being used to support outstanding letters of credit in the amount of \$6.9 million, which included the \$5.9 million associated to the security deposit for the sale leaseback transaction. Concurrent to the credit facility expiration, these letters of credit were cash collateralized and will be classified as restricted cash.

At September 30, 2015, the Company's available borrowing capacity under the revolving credit facility was \$3.1 million.

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Note 11. Income Taxes

Income tax expense relates principally to operating results of foreign subsidiaries in Europe and Asia, where the Company earns taxable income and does not have offsetting net operating loss carryforwards. The Company has significant net operating loss carryforwards available to offset income taxes in the U.S and certain foreign tax jurisdictions and, as a result, has not provided for significant income taxes in those jurisdictions.

As of December 31, 2014, the Company had deferred tax assets related to the U.S. of approximately \$140.0 million. The Company maintains a 100% valuation allowance to reduce the carrying value of these deferred tax assets to zero because the Company is in a three year cumulative loss position in the United States. The Company will continue to maintain a full valuation allowance for these tax assets until sustainable future levels of profitability are evident. See Note 3 above relating to the potential effect associated with the taxable gain on the sale of the Company's corporate headquarters.

Note 12. Concentration of Risk

For the three months ended September 30, 2015, two customers accounted for approximately 32.8% and 16.1% of consolidated revenue. For the nine months ended September 30, 2015, one customer accounted for approximately 33.0% of consolidated revenue.

For the three months ended September 30, 2014, two customers accounted for approximately 11.0% and 10.5% of consolidated revenue. For the nine months ended September 30, 2014, two customers accounted for approximately 18.8% and 10.8% of consolidated revenue.

At September 30, 2015, four customers accounted for 20.5%, 12.3%, 11.8% and 10.0% of consolidated gross accounts receivable. At December 31, 2014, two customers accounted for 21.7% and 20.4% of consolidated accounts receivable.

Note 13. Contingencies

(a) Litigation

The Company is not presently a party to any litigation that it believes might have a material adverse effect on its business operations. The Company is, from time to time, a party to litigation that arises in the normal course of its business operations.

(b) Indemnifications

The Company's system sales agreements typically include provisions under which the Company agrees to take certain actions, provide certain remedies and defend its customers against third-party claims of intellectual property infringement under specified conditions and to indemnify customers against any damage and costs awarded in connection with such claims. The Company has not incurred any material costs as a result of such indemnifications and has not accrued any liabilities related to such obligations in the accompanying consolidated financial statements.

(c) Lease Commitments

¹¹

In addition to the lease commitments as described within Note 16 to the consolidated financial statements in the Company's Annual Report on Form 10-K for our year ending December 31, 2014, in January 2015, the Company entered into a 22-year lease agreement relating to our corporate headquarters in Beverly, Massachusetts. The following table relates to the cash payment schedule associated with our lease obligation as of September 30, 2015:

| | Lease |
|---------------------------|----------------------------------|
| | Obligation (in thousands) |
| 2015 | \$ 1,175 |
| 2016 | 4,815 |
| 2017 | 5,315 |
| 2018 | 5,470 |
| 2019 | 5,594 |
| Thereafter | 109,567 |
| Total lease payments | \$ 131,936 |
| Less interest portion | (84,350) |
| Sale leaseback obligation | \$ 47,586 |
| | |

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Note 14. Recent Accounting Guidance

Accounting Standards or Updates Recently Adopted

In April 2015, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2015-03, *Interest — Imputation of Interest (Subtopic 835-30): Simplifying the Presentation of Debt Issuance Costs.* The amendments in this Update require that debt issuance costs related to a recognized debt liability be presented in the balance sheet as a direct deduction from the carrying amount of that debt liability, consistent with debt discounts. For public business entities, the amendments in this Update are effective for the financial statements issued for fiscal years beginning after December 15, 2015, and the interim periods within those fiscal years. Early adoption of the amendments in this Update is permitted for financial statements that have not been previously issued and shall be applied on a retrospective basis, wherein the balance sheet of each individual period presented should be adjusted to reflect the period-specific effects of applying the new guidance. The Company adopted ASU No. 2015-03, effective on January 1, 2015. Our balance sheet at December 31, 2014 was not retrospectively adjusted, due to the immateriality of the effect of the adoption of this ASU. The Company's balance sheet presentation as of September 30, 2015 netted all capitalized costs associated with our lease obligation. See Note 3 above regarding the amounts recognized relating to the lease obligation.

Accounting Standards or Updates Not Yet Effective

In May 2014, the FASB issued ASU No. 2014-09, "*Revenue from Contracts with Customers*," which provides guidance for revenue recognition. The standard's core principle is that a company will recognize revenue when it transfers promised goods or services to customers in an amount that reflects the consideration to which the company expects to be entitled in exchange for those goods or services. On July 9, 2015, the FASB voted to defer for one year the effective date, which is now for annual reporting periods beginning after December 15, 2017, including interim periods within that reporting period with early adoption permitted as of January 1, 2017. We are currently assessing the potential impact the adoption of this standard will have on our financial statements.

In July 2015, the FASB issued ASU No. 2015-11, "Simplifying the Measurement of Inventory," which changes the inventory measurement principles for entities using the first-in, first-out (FIFO) or average cost methods. For entities utilizing one of these methods, the inventory measurement principle will change from lower of cost or market to the lower of cost and net realizable value. Net realizable value is the estimated selling price in the ordinary course of business, less the reasonably predictable costs of completion, disposal and transportation. The amendments are effective for annual and interim periods beginning after December 15, 2016. We are currently assessing the potential impact the adoption of this standard will have on our financial statements.

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

Overview

Axcelis is a worldwide producer of ion implantation and other processing equipment used in the fabrication of semiconductor chips in the United States, Europe and Asia. In addition, the Company provides extensive aftermarket service and support, including spare parts, equipment upgrades and maintenance services to the semiconductor industry worldwide. Consolidation and partnering within the semiconductor manufacturing industry has resulted in a small number of customers representing a substantial portion of our business. Our net revenue from our ten largest customers accounted for 77.9% of total revenue for the nine months ended September 30, 2015.

Our product development and manufacturing activities occur primarily in the United States. Axcelis' equipment and service products are highly technical and are sold primarily through a direct sales force in the United States, Europe and Asia.

Demand for semiconductor manufacturing equipment and services has historically been subject to cyclical industry conditions reflecting our customers' responses to changes in the nature and timing of technological advances in fabrication processes, supply and demand for chips, and global economic and market conditions.

Separately from overall market demand, Axcelis' results are also impacted by our customers' decisions to purchase our products rather than our competitors' systems. Our recent financial results reflect increasing sales of our innovative Purion ion implantation systems, and our continued investment in

research and development programs related to our Purion ion implantation products. We expect to continue to grow Purion system sales and maintain tight control of our cost structure.

In light of these conditions, Axcelis' results can vary significantly year-over-year, as well as quarter-over-quarter. A discussion of factors that could affect Axcelis' operations is set forth under "Risk Factors" in Part II, Item 1A to our annual report on Form 10-K for the year ended December 31, 2014, which discussion is incorporated herein by reference.

Critical Accounting Estimates

Management's discussion and analysis of our financial condition and results of operations included herein and in our Annual Report on Form 10-K for the year ended December 31, 2014 are based upon Axcelis' consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenue and expenses and related disclosure of contingent assets and liabilities. On an on-going basis, we evaluate our estimates and assumptions. Management's estimates are based on historical experience and on various other assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

Management has not identified any need to make any material change in, and has not changed, any of our critical accounting estimates and judgments as described in Management's Discussion and Analysis of Financial Conditions and Results of Operations included in our Annual Report on Form 10-K for the year ended December 31, 2014.

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Results of Operations

The following table sets forth our results of operations as a percentage of total revenue:

| | Three months o September 3 | | Nine months e September 3 | |
|-----------------------------------|-------------------------------|---------|------------------------------|--------|
| | 2015 | 2014 | 2015 | 2014 |
| Revenue: | | | | |
| Product | 93.0% | 84.0% | 92.7% | 86.9% |
| Services | 7.0 | 16.0 | 7.3 | 13.1 |
| Total revenue | 100.0 | 100.0 | 100.0 | 100.0 |
| Cost of revenue: | | | | |
| Product | 57.6 | 48.9 | 59.5 | 52.4 |
| Services | 5.6 | 11.8 | 6.0 | 11.0 |
| Total cost of revenue | 63.2 | 60.7 | 65.5 | 63.4 |
| Gross profit | 36.8 | 39.3 | 34.5 | 36.6 |
| Operating expenses: | | | | |
| Research and development | 10.8 | 20.6 | 10.7 | 18.4 |
| Sales and marketing | 8.0 | 12.7 | 7.7 | 11.0 |
| General and administrative | 8.3 | 14.0 | 8.2 | 13.1 |
| Restructuring charges | _ | 5.9 | _ | 1.9 |
| Total operating expenses | 27.1 | 53.2 | 26.6 | 44.4 |
| Income (loss) from operations | 9.7 | (13.9) | 7.9 | (7.8) |
| Other (expense) income: | | | | |
| Interest income | _ | _ | _ | _ |
| Interest expense | (1.6) | (0.8) | (1.6) | (0.6) |
| Other, net | (0.2) | 3.5 | (0.2) | 0.9 |
| Total other (expense) income | (1.8) | 2.7 | (1.8) | 0.3 |
| Income (loss) before income taxes | 7.9 | (11.2) | 6.1 | (7.5) |
| Income taxes | 0.2 | 1.0 | 0.1 | 0.6 |
| Net income (loss) | 7.7% | (12.2)% | 6.0% | (8.1)% |

Revenue

The following table sets forth our revenues.

| | Three months ended September 30, | | | Period-to-I Chang | | Nine mon Septem | | Period-to-F Chang | | |
|------------------------|---|-----|--------|--------------------------|-------------|--------------------|---------|----------------------|--------------|--------|
| | 2015 | 201 | 14 | \$ | % | | 2015 | 2014 | \$ | % |
| | | | | | (dollars in | thous | ands) | | | |
| Revenues: | | | | | | | | | | |
| Product | \$ 73,795 | \$ | 32,360 | \$ 41,435 | 128.0 | %\$ | 214,073 | \$ 122,170 | \$ 91,903 | 75.2% |
| Percentage of revenues | 93.0% | | 84.0% | | | | 92.7% | 86.9% | | |
| Services | 5,522 | | 6,171 | (649) | (10.5 | % | 16,964 | 18,351 | (1,387) | (7.6)% |
| Percentage of revenues | 7.0% | | 16.0% | | | | 7.3% | 13.1% | | |
| Total revenues | \$ 79,317 | \$ | 38,531 | \$ 40,786 | 105.9 | % \$ | 231,037 | \$ 140,521 | \$ 90,516 | 64.4% |

Three Months Ended September 30, 2015 Compared with Three Months Ended September 30, 2014

Product

Product revenue, which includes system sales, sales of spare parts, product upgrades, and used systems was \$73.8 million, or 93.0% of revenue during the three months ended September 30, 2015, compared with \$32.4 million, or 84.0% of revenue for the three months ended September 30, 2014. The \$41.4

million increase in product revenue for the three month period ending September 2015 was primarily driven by an increase in the number of Purion systems sold.

A portion of our revenue from system sales is deferred until installation and other services related to future deliverables are performed. The total amount of deferred revenue at September 30, 2015 and December 31, 2014 was \$10.1 million and \$7.2 million,

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respectively. The increase in deferred revenue is primarily due to additional volume of system sales and to a lesser extent, the timing of the acceptance of system sales.

Services

Services revenue, which includes the labor component of maintenance and service contracts and fees for service hours provided by on-site service personnel, was \$5.5 million, or 7.0 % of revenue for the three months ended September 30, 2015, compared with \$6.2 million, or 16.0% of revenue for the three months ended September 30, 2014. Services revenue fluctuates from period to period based on capacity utilization at customers' manufacturing facilities, which affects the need for equipment service.

Nine Months Ended September 30, 2015 Compared with Nine Months Ended September 30, 2014

Product

Product revenue was \$214.1 million, or 92.7% of revenue for the nine months ended September 30, 2015, compared with \$122.2 million, or 86.9% of revenue for the nine months ended September 30, 2014. The \$91.9 million increase in product revenue for the nine month period ending September 2015 was primarily driven by an increase in the number of Purion systems sold.

Services

Services revenue was \$17.0 million, or 7.3% of revenue for the nine months ended September 30, 2015, compared with \$18.4 million, or 13.1% of revenue for the nine months ended September 30, 2014. Although services revenue should increase with the expansion of the installed base of systems, it can fluctuate from period to period based on capacity utilization at customers' manufacturing facilities, which affects the need for equipment service.

Revenue Categories used by Management

As an alternative to the line item revenue categories discussed above, management also uses revenue categorizations which look at revenue by systems and aftermarket, as described below.

Three Months Ended September 30, 2015 Compared with Three Months Ended September 30, 2014

Systems

Included in total revenue of \$79.3 million during the three months ended September 30, 2015 is revenue from sales of systems of \$47.0 million, or 59.3% of total revenue, compared with \$8.4 million, or 21.9%, of total revenue for the three months ended September 30, 2014. The increase was due to higher sales of our Purion systems, reflecting market share gains and an improved semiconductor equipment market.

Aftermarket

We refer to the business of selling spare parts, product upgrades and used systems, combined with the sale of maintenance labor and service contracts and service hours, as the "aftermarket" business. Included in total revenue of \$79.3 million during the three months ended September 30, 2015 is revenue from our aftermarket business of \$32.3 million, which increased by \$2.2 million compared to \$30.1 million for the three months ended September 30, 2014. Aftermarket revenue fluctuates from period to period based on capacity utilization at customers' manufacturing facilities which affects the sale of spare parts and demand for equipment service. Aftermarket revenue can also fluctuate from period to period based on the demand for system upgrades or used tools.

Nine Months Ended September 30, 2015 Compared with Nine Months Ended September 30, 2014

Systems

Included in total revenue of \$231.0 million during the nine months ended September 30, 2015 is revenue from sale of systems of \$131.1 million, or 56.7% of total revenue, compared with \$51.8 million, or 36.8% of total revenue for the nine months ended September 30, 2014. The increase was due to higher sales of our Purion systems, reflecting market share gains and an improved semiconductor equipment market during the first nine months of 2015.

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Aftermarket

Included in total revenue of \$231.0 million during the nine months ended September 30, 2015 is revenue from our aftermarket business of \$99.9 million, which increased \$11.1 million, or 43.3% of total revenue, compared to \$88.8 million, or 63.2% of total revenue for the nine months ended September 30, 2014.

Gross Profit / Gross Margin

The following table sets forth our gross profit / gross margin.

| | Three months ended September 30, | | | | Period-to Chai | | | Nine months ended September 30, | | | | l Period-to-Period Change | | |
|-----------------------|-------------------------------------|----|--------|----|-------------------|----------|-------|------------------------------------|--------|----|--------|------------------------------|--------|-------|
| | 2015 | | 2014 | 9 | 5 | % | | | 2015 | | 2014 | | \$ | % |
| | | | | | | (dollars | in th | iousa | ands) | | | | | |
| Gross Profit: | | | | | | · | | | | | | | | |
| Product | \$ 28,097 | \$ | 13,537 | \$ | 14,560 | 107 | .6% | \$ | 76,630 | \$ | 48,524 | \$ | 28,106 | 57.9% |
| Product gross margin | 38.1% | | 41.8% | | | | | | 35.8% | | 39.7% | | | |
| Services | 1,082 | | 1,607 | | (525) | (32 | .7)% | | 3,103 | | 2,844 | | 259 | 9.1% |
| Services gross margin | 19.6% | | 26.0% | | | | | | 18.3% | | 15.5% | | | |
| Total gross profit | \$ 29,179 | \$ | 15,144 | \$ | 14,035 | 92 | .7% | \$ | 79,733 | \$ | 51,368 | \$ | 28,365 | 55.2% |
| Gross margin | 36.8% | | 39.3% | - | | | | | 34.5% | _ | 36.6% | | | |

Three Months Ended September 30, 2015 Compared with Three Months Ended September 30, 2014

Product

Gross margin from product revenue was 38.1% for the three months ended September 30, 2015, compared to 41.8% for the three months ended September 30, 2014. The decrease in gross margin of 3.7 percentage points resulted from significantly higher system sales volume of new Purion systems at lower initial margins.

Services

Gross margin from services revenue was 19.6% for the three months ended September 30, 2015, compared to 26.0% for the three months ended September 30, 2014. The decrease in gross margin was attributable to changes in the mix of service contracts.

Nine Months Ended September 30, 2015 Compared with Nine Months Ended September 30, 2014

Product

Gross margin from product revenue was 35.8% for the nine months ended September 30, 2015, compared to 39.7% for the nine months ended September 30, 2014. The decrease in gross margin of 3.9 percentage points resulted from the net effect of significantly higher system sales volume of new Purion systems at lower initial margins and decrease in the mix of higher margin parts and upgrade revenue.

Services

Gross margin from services revenue was 18.3% for the nine months ended September 30, 2015, compared to 15.5% for the nine months ended September 30, 2014. The increase in gross margin was attributable to changes in the mix of service contracts and lower overall service costs.

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Operating Expenses

The following table sets forth our operating expenses:

| | Three months ended September 30, | | | | | Period-to-Period Nine mon Change Septer | | | | | | eriod | |
|----------------------------|---|----|--------|----|---------|--|-----|--------|----|--------|----|---------|---------|
| | 2015 | | 2014 | _ | \$ | % | | 2015 | | 2014 | | \$ | % |
| | | | | | | (dollars in the | ous | ands) | | | | | |
| Research and development | \$ 8,581 | \$ | 7,950 | \$ | 631 | 7.9% | \$ | 24,679 | \$ | 26,052 | \$ | (1,373) | (5.3)% |
| Percentage of revenues | 10.8% | | 20.6% | | | | | 10.7% | | 18.4% | | | |
| Sales and marketing | 6,322 | | 4,891 | | 1,431 | 29.3% | | 17,808 | | 15,404 | | 2,404 | 15.6% |
| Percentage of revenues | 8.0% | | 12.7% | | | | | 7.7% | | 11.0% | | | |
| General and administrative | 6,584 | | 5,380 | | 1,204 | 22.4% | | 18,916 | \$ | 18,356 | | 560 | 3.1% |
| Percentage of revenues | 8.3% | | 14.0% | | | | | 8.2% | | 13.1% | | | |
| Restructuring charges | _ | | 2,288 | | (2,288) | (100.0)% | | 18 | | 2,648 | | (2,630) | (99.3)% |
| Percentage of revenues | % | | 5.9% | | | . , | | 0.0% | | 1.9% | | | · · · · |
| Total operating expenses | \$ 21,487 | \$ | 20,509 | \$ | 978 | 4.8% | \$ | 61,421 | \$ | 62,460 | \$ | (1,039) | (1.7)% |
| Percentage of revenues | 27.1% | | 53.2% | | | | | 26.6% | | 44.4% | | | |

Our operating expenses consist primarily of personnel costs, including salaries, commissions, expected variable incentive plan payouts, share-based compensation and related benefits and taxes; project material costs related to the design and development of new products and enhancement of existing products; and professional fees, travel and depreciation expenses.

Personnel costs are our largest expense, representing \$13.2 million and \$36.4 million, or 61.4% and 59.3%, of our total operating expenses for the three and nine-month periods ended September 30, 2015, respectively. Excluding restructuring costs for the three and nine month periods ended September 30, 2014, personnel costs were \$10.5 million and \$34.9 million, or 57.6% and 58.4%, of our total operating expenses, respectively.

Research and Development

| | Three months ended September 30, | | | | Period-to- Chan | ths e ber 3 | nded 30, | | Period-to-Period Change | | | |
|--------------------------|-------------------------------------|----|-------|----|--------------------|-----------------|-------------|----|----------------------------|----|---------|--------|
| | 2015 | | 2014 | _ | \$ | % | 2015 | | 2014 | _ | \$ | % |
| | | | | | | (dollars in tho | usands) | | | | | |
| Research and development | \$ 8,581 | \$ | 7,950 | \$ | 631 | 7.9% \$ | 24,679 | \$ | 26,052 | \$ | (1,373) | (5.3)% |
| Percentage of revenues | 10.8% | ó | 20.6% | 6 | | | 10.7% | 6 | 18.4% | ó | | |

Our ability to remain competitive depends largely on continuously developing innovative technology, with new and enhanced features and systems and introducing them at competitive prices on a timely basis. Accordingly, based on our strategic plan, we establish annual R&D budgets to fund programs that

we expect will drive competitive advantages.

Three Months Ended September 30, 2015 Compared with Three Months Ended September 30, 2014

Research and development expense was \$8.6 million during the three months ended September 30, 2015; an increase of \$0.6 million compared with \$8.0 million during the three months ended September 30, 2014. The increase in expense was primarily due to an increase in personnel costs associated with the Company's variable incentive plan.

Nine Months Ended September 30, 2015 Compared with Nine Months Ended September 30, 2014

Research and development expense was \$24.7 million during the nine months ended September 30, 2015; a decrease of \$1.4 million compared with \$26.1 million during the nine months ended September 30, 2014. The decrease was due to overall lower personnel costs driven by reduced headcount from the previous year as well as a spike in labor and materials costs experienced in the prior year relating to the roll out of our Purion platform partially offset by higher variable incentive plan expense.

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Sales and Marketing

| | Three months ended September 30, | | | | Period-to- Chan | Nine months ended September 30, | | | | | Period-to-Period Change | | |
|------------------------|-------------------------------------|----|-------|----|--------------------|------------------------------------|--------|--------|----|--------|----------------------------|-------|-------|
| | 2015 | | 2014 | _ | \$ | % | | 2015 | | 2014 | | \$ | % |
| | | | | | | (dollars in | thousa | ands) | | | | | |
| Sales and marketing | \$ 6,322 | \$ | 4,891 | \$ | 1,431 | 29.39 | %\$ | 17,808 | \$ | 15,404 | \$ | 2,404 | 15.6% |
| Percentage of revenues | 8.0% |) | 12.7% | ó | | | | 7.7% | ó | 11.0% | ó | | |

Our sales and marketing expenses are incurred primarily in the sale of our equipment and services through our direct sales force.

Three Months Ended September 30, 2015 Compared with Three Months Ended September 30, 2014

Sales and marketing expense was \$6.3 million during the three months ended September 30, 2015; an increase of \$1.4 million, or 29.3%, compared with \$4.9 million during the three months ended September 30, 2014. The increase was primarily due to variable incentive plan expense and other compensation expenses as well as higher new tool evaluation costs.

Nine Months Ended September 30, 2015 Compared with Nine Months Ended September 30, 2014

Sales and marketing expense was \$17.8 million during the nine months ended September 30, 2015; an increase of \$2.4 million, or 15.6%, compared with \$15.4 million during the nine months ended September 30, 2014. The increase was primarily due to variable incentive plan expense and other compensation expenses as well as higher new tool evaluation costs.

General and Administrative

| | Three months ended September 30, | | | | Period-to- Chan | ths e ber 3 | nded 30, | | Period-to-F Chang | | | |
|----------------------------|-------------------------------------|----|-------|----|--------------------|-----------------|-------------|----|----------------------|----|-----|------|
| | 2015 | 2 | 014 | | \$ | % | 2015 | | 2014 | | \$ | % |
| | | | | | | (dollars in the | ousands) | | | | | |
| General and administrative | \$ 6,584 | \$ | 5,380 | \$ | 1,204 | 22.4% \$ | 18,916 | \$ | 18,356 | \$ | 560 | 3.1% |
| Percentage of revenues | 8.3% | | 14.0% | 6 | | | 8.29 | 6 | 13.1% | 6 | | |

Our general and administrative expenses result primarily from the costs associated with our executive, finance, information technology, legal and human resource functions.

Three Months Ended September 30, 2015 Compared with Three Months Ended September 30, 2014

General and administrative expense was \$6.6 million during the three months ended September 30, 2015; an increase of \$1.2 million, or 22.4% compared with \$5.4 million during the three months ended September 30, 2014. The increase was primarily due to variable incentive plan expense.

Nine Months Ended September 30, 2015 Compared with Nine Months Ended September 30, 2014

General and administrative expense was \$18.9 million during the nine months ended September 30, 2015; an increase of \$0.6 million, or 3.1%, compared with \$18.4 million during the nine months ended September 30, 2014. The increase was primarily due to variable incentive plan expense, partially offset by a reduction in salaries due to reduced headcount from the previous year.

Restructuring Charges

| | | Three month ended September 3 | | | Period-to-l Chang | nge September 30, | | | | | | Period-to-P Chang | |
|------------------------|----|-------------------------------------|-------|----|----------------------|-------------------|--------|------|----|-------|----|----------------------|---------|
| | 20 |)15 | 2014 | | \$ | % | | 2015 | | 2014 | | \$ | % |
| | | | | | | (dollars in t | housar | ıds) | | | | | |
| Restructuring charges | \$ | — \$ | 2,288 | \$ | (2,288) | (100.0)% | \$ | 18 | \$ | 2,648 | \$ | (2,630) | (99.3)% |
| Percentage of revenues | | % | 5.9% | 6 | | | | 0.0% | | 1.9% | | | |

We implemented reductions in force in prior periods to improve the focus of our operations, control costs, achieve profitability and conserve cash. As a result of these actions, we recorded minor adjustments to restructuring expense in the nine months ended

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September 30, 2015, compared to \$2.3 million and \$2.6 million in restructuring expense for severance and related costs during the three and nine month periods ended September 30, 2014.

Other (Expense) Income

| | Three months ended September 30, | | | | | Period-to-Period Change | Nine months ended September 30, | | | | Period-to-Period Change | |
|-----------------------------|-------------------------------------|------|-------|----|---------|----------------------------|------------------------------------|---------|----|------|----------------------------|----------|
| - | 2015 | | 2014 | | \$ | % | | 2015 | | 2014 | \$ | % |
| - | | | | | | (dollars in thousands) | | | | | | |
| Other (expense) income, net | \$ (1,434) | \$ | 1,050 | \$ | (2,484) | (236.6)% | \$ | (4,162) | \$ | 476 | \$(4,638) | (974.4)% |
| Percentage of revenues | (1 | .8)% | 2.7% | | | | | (1.8)% | 6 | 0.3% | | |

Other (expense) income consists primarily of foreign exchange gains and losses attributable to fluctuations against the local currencies of the countries in which we operate, interest earned on our invested cash balances, bank fees associated with our financing arrangements and interest expense related to financing arrangements.

Other expense was \$1.4 million for the three months ended September 30, 2015, compared to income of \$1.1 million for the three months ended September 30, 2014. The increase in other expense was primarily driven by charges incurred related to the sale leaseback of our corporate headquarters facility. The Company recorded \$1.3 million in interest expense associated with the lease of our headquarters in Beverly, which is being accounted for as a financing obligation. See Note 3 for further discussion.

Other expense was \$4.2 million for the nine months ended September 30, 2015 compared to income of \$0.5 million for the nine months ended September 30, 2014. The increase in other expense was primarily due to an increase in interest expense of \$2.8 million, and a decrease to foreign exchange gains of \$1.5 million, associated with fluctuations of the U.S. dollar against local currencies of certain countries in which we operate.

During the three and nine month periods ended September 30, 2015 and 2014, with the exception of the lease agreement entered into by the Company relating to the sale leaseback transaction, we had no significant off-balance sheet risk such as exchange contracts, option contracts or other foreign hedging arrangements.

Income Taxes

| | Three months ended September 30, | | | Period-to-Period Change | | | Nine months ended September 30, | | | | Period-to-Period Change | | |
|------------------------|-------------------------------------|--------|------|----------------------------|-------|----------------|------------------------------------|------|--------|------|----------------------------|-------|---------|
| | 2015 | | 2014 | _ | \$ | % | | 2015 | | 2014 | _ | \$ | % |
| | | | | | | (dollars in th | ousar | ıds) | | | | | |
| Income taxes | \$ 157 | \$ | 389 | \$ | (232) | (59.6)% | \$ | 298 | \$ | 814 | \$ | (516) | (63.4)% |
| Percentage of revenues | 0.2% | ,) | 1.0% | ó | | | | 0.1% | ,) | 0.6% | ó | | |

We incur income tax expense relating principally to operating results of foreign entities in Europe and Asia, where we earn taxable income. We have significant net operating loss carryforwards in the United States and certain European jurisdictions and, as a result, we do not currently pay significant income taxes in those jurisdictions. Additionally, we do not recognize the tax benefit for losses in the United States and certain European tax jurisdictions until there is sufficient income such that the tax benefits can be recognized. As stated in Note 3, the Company does not anticipate any federal or state tax liability associated with the taxable gain on the sale of its corporate headquarters. The Company will continue to maintain a full valuation allowance for these tax assets until sustainable future levels of profitability are evident.

Liquidity and Capital Resources

Our liquidity is primarily affected by the rate of sale of our products. Our established cost structure, other than cost of goods sold, does not vary significantly with changes in volume. We experience fluctuations in operating results and cash flows depending largely on changes in revenue levels.

During the nine month period ended September 30, 2015, the Company generated \$12.4 million of cash from operating activities. This was predominately driven by the Company's income from operations, excluding non-cash charges such as depreciation and amortization and stock based compensation expense. The Company also had increases in accounts payable and deferred revenue of approximately \$12.8 million, offset by the increases in inventory and prepaid expenses and other current assets of approximately \$22.7 million. In comparison, during the nine month period ended September 30, 2014, the Company used \$13.8 million of cash to support operating activities.

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Investing activities for the nine months periods ending September 30, 2015 and 2014 included \$1.3 million and \$0.7 million, respectively, used for capital expenditures.

Financing activities for the nine month period ending September 30, 2015 provided net cash of \$37.7 million. This resulted largely from the first quarter 2015 sale of our corporate headquarters building in Beverly, Massachusetts, which provided \$48.9 million of gross proceeds, less \$0.4 million for prepaid rent, for a net amount of \$48.5 million. Also in the first quarter, the Company paid \$14.5 million to Northern Bank & Trust Company relating to a scheduled principal payment on a term loan, followed by a discharge of the loan, which was secured by the property sold. This loan discharge resulted in a \$0.8 million decrease in our restricted cash balance. The Company incurred \$0.8 million of related financing expenses associated with this transaction. Also included in cash provided by financing activities in the nine month period was \$3.8 million received relating to the exercise of stock options and purchases of Company stock through the Employee Stock Purchase Plan. In comparison, financing activities for the nine month period ending September 30, 2014 included \$2.1 million of cash received, primarily upon exercise of stock options.

The Company had a revolving credit facility with Silicon Valley Bank, dated October 31, 2013, which the Company terminated in October 2015. Under this revolving credit facility, the Company had the ability to borrow up to \$10.0 million on a revolving basis during its two year term. The Company's ability to borrow under this line of credit was limited to 80% of the then current amount of qualified accounts receivable. As of September 30, 2015, the Company had not drawn down on the line of credit, although a portion of the availability was being used to support outstanding letters of credit in the amount of \$6.9 million, which included the \$5.9 million associated to the security deposit for the sale leaseback transaction. Concurrent to the credit facility expiration, these letters of credit were cash collateralized and will be classified as restricted cash.

At September 30, 2015, the Company's available borrowing capacity under the revolving credit facility was \$3.1 million.

We believe that based on our current market, revenue, expense and cash flow forecasts, our existing cash and cash equivalents, will be sufficient to satisfy our anticipated cash requirements for the short and long-term. In the event that demand for our products declines in future periods, we believe we can align manufacturing and operating spending levels to the changing business conditions and provide sufficient liquidity to support operations. Our expectation for adequate liquidity is subject to risks that may cause our actual results to differ materially from our expectations. These risks include the timing and degree of customer acceptance of our products, the continuing demand for ion implantation equipment, overall activity levels of semiconductor manufacturing, competitive pressure on sales and pricing, increases in material and other production costs that cannot be recouped in product pricing and global economic, political and financial conditions.

Commitments and Contingencies

Other than the lease obligation related to the sale leaseback of our Corporate headquarters shown in the table below, significant commitments and contingencies at September 30, 2015 are consistent with those discussed in Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations," and Note 16 to the consolidated financial statements in our Annual Report on Form 10-K for the fiscal year ended December 31, 2014.

The following represents all material changes from our prior year end to our contractual obligations as of September 30, 2015 (in thousands):

| | | | | Payments Due by Period | | | | | |
|-------------------------|-------|---------|----|------------------------|----|----------|-----------|---------|--|
| Contractual Obligations | Total | | | 2015 | 2 | 016-2019 | 2020-2037 | | |
| Lease obligation | \$ | 131,936 | \$ | 1,175 | \$ | 21,194 | \$ | 109,567 | |
| Total | \$ | 131,936 | \$ | 1,175 | \$ | 21,194 | \$ | 109,567 | |
| | | | | | | | | | |
| | | 21 | | | | | | | |
| | | | | | | | | | |

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Item 3. Quantitative and Qualitative Disclosures about Market Risk.

As of September 30, 2015, there have been no material changes to the quantitative information about market risk disclosed in Item 7A to our annual report on Form 10-K for the ended December 31, 2014.

Item 4. Controls and Procedures.

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our principal executive officer and principal financial officer, has evaluated the effectiveness of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act") as of the end of the period covered by this report (the "Evaluation Date"). Based on this evaluation, our principal executive officer and principal financial officer concluded that, as of the Evaluation Date, these disclosure controls and procedures are effective.

Changes in Internal Control over Financial Reporting

There was no change in our internal control over financial reporting (as defined in Rule 13a-15(f) under the Exchange Act) identified in connection with the evaluation of our internal control that occurred during the three months ended September 30, 2015 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

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PART II—OTHER INFORMATION

Item 1. Legal Proceedings.

The Company is, from time to time, a party to litigation that arises in the normal course of its business operations. The Company is not presently a party to any litigation that it believes might have a material adverse effect on its business operations.

Item 1A. Risk Factors.

As of September 30, 2015, there have been no material changes to the risk factors described in Item 1A to our annual report on Form 10-K for the year ended December 31, 2014.

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

None.

Item 3. Defaults Upon Senior Securities.

None.

Item 4. Mine Safety Disclosures.

Not Applicable.

Item 5. Other Information.

None.

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Item 6. Exhibits.

The following exhibits are filed herewith:

| Exhibit No | Description |
|---------------|---|
| 3.1 | Amended and Restated Certificate of Incorporation of the Company adopted May 6, 2009. Incorporated by reference to Exhibit 3.1 of the Company's Current Report on Form 8-K filed with the Commission on May 11, 2009. |
| 3.2 | Bylaws of the Company, as amended as of August 8, 2007. Incorporated by reference to Exhibit 3.2 of the Company's Form 10-Q for the quarterly period ended June 30, 2007, filed with the Commission on August 9, 2007. |
| 31.1 | Certification of the Principal Executive Officer under Exchange Act Rule 13a-14(a)/15d-14(a) (Section 302 of the Sarbanes-Oxley Act), dated November 5, 2015. Filed herewith. |
| 31.2 | Certification of the Principal Financial Officer under Exchange Act Rule 13a-14(a)/15d-14(a) (Section 302 of the Sarbanes-Oxley Act), dated November 5, 2015. Filed herewith. |
| 32.1 | Certification of the Principal Executive Officer pursuant to Section 1350 of Chapter 63 of title 18 of the United States Code (Section 906 of the Sarbanes-Oxley Act), dated November 5, 2015. Filed herewith. |
| 32.2 | Certification of the Principal Financial Officer pursuant to Section 1350 of Chapter 63 of title 18 of the United States Code (Section 906 of the Sarbanes-Oxley Act), dated November 5, 2015. Filed herewith. |
| 101 | The following materials from the Company's Form 10-Q for the quarter ended September 30, 2015, formatted in eXtensible Business Reporting Language (XBRL): (i) Consolidated Statements of Operations, (ii) Consolidated Statements of Comprehensive Loss, (iii) Consolidated Balance Sheets, (iv) Consolidated Statements of Cash Flows and (v) Notes to Consolidated Financial Statements (Unaudited). |
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SIGNATURES

Pursuant to the requirements 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.

AXCELIS TECHNOLOGIES, INC.

DATED: November 5, 2015

By: /s/ KEVIN J. BREWER

Kevin J. Brewer Executive Vice President and Chief Financial Officer Duly Authorized Officer and Principal Financial Officer

CERTIFICATION of the Principal Executive Officer Pursuant to Rule 13a-14(a)/15d-14(a) (implementing Section 302 of the Sarbanes-Oxley Act)

I, Mary G. Puma, certify that:

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

Date: November 5, 2015

/s/ MARY G. PUMA Mary G. Puma, President and Chief Executive Officer

CERTIFICATION of the Principal Financial Officer Pursuant to Rule 13a-14(a)/15d-14(a) (implementing Section 302 of the Sarbanes-Oxley Act)

I, Kevin J. Brewer, certify that:

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

Date: November 5, 2015

/s/ KEVIN J. BREWER Kevin J. Brewer, Executive Vice President and Chief Financial Officer

AXCELIS TECHNOLOGIES, INC. Certification of the Principal Executive Officer Pursuant to Section 1350 of Chapter 63 of title 18 of the United States Code

The undersigned Chief Executive Officer of Axcelis Technologies, Inc., a Delaware corporation, hereby certifies, for the purposes of Section 1350 of Chapter 63 of title 18 of the United States Code (as implemented by Section 906 of the Sarbanes-Oxley Act of 2002) as follows:

This Form 10-Q quarterly report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)) and the information contained herein fairly presents, in all material respects, the financial condition and results of operations of the Company.

IN WITNESS WHEREOF, the undersigned has executed this Certification as of November 5, 2015.

/s/ MARY G. PUMA

Mary G. Puma President and Chief Executive Officer of Axcelis Technologies, Inc.

AXCELIS TECHNOLOGIES, INC. Certification of the Principal Financial Officer Pursuant to Section 1350 of Chapter 63 of title 18 of the United States Code

The undersigned Chief Financial Officer of Axcelis Technologies, Inc., a Delaware corporation, hereby certifies, for the purposes of Section 1350 of Chapter 63 of title 18 of the United States Code (as implemented by Section 906 of the Sarbanes-Oxley Act of 2002) as follows:

This Form 10-Q quarterly report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)) and the information contained herein fairly presents, in all material respects, the financial condition and results of operations of the Company.

IN WITNESS WHEREOF, the undersigned has executed this Certification as of November 5, 2015.

/s/ KEVIN J. BREWER

Kevin J. Brewer Executive Vice President and Chief Financial Officer of Axcelis Technologies, Inc.