

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 10-Q**

(Mark One)

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

For the quarterly period ended September 30, 2010

or

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

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number 000-30941

**AXCELIS TECHNOLOGIES, INC.**

(Exact name of registrant as specified in its charter)

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

**34-1818596**  
(IRS Employer  
Identification No.)

**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  No .

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, of 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  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 the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

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 .

As of November 4, 2010 there were 104,766,609 shares of the registrant's common stock outstanding.

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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 months ended September 30,	
	2010	2009	2010	2009
Revenue				
Product	\$ 66,162	\$ 25,871	\$ 157,133	\$ 69,369
Service	8,944	9,132	24,676	24,527
Royalties from SEN	—	4	—	389
	<u>75,106</u>	<u>35,007</u>	<u>181,809</u>	<u>94,285</u>
Cost of revenue				
Product	47,848	21,681	111,858	62,571
Service	5,788	5,506	15,606	15,001
	<u>53,636</u>	<u>27,187</u>	<u>127,464</u>	<u>77,572</u>
Gross profit	21,470	7,820	54,345	16,713
Operating expenses				
Research and development	9,872	7,648	28,482	24,935
Sales and marketing	7,151	5,700	20,361	18,864
General and administrative	7,885	7,874	23,049	27,075
Restructuring charges	—	430	—	5,528
	<u>24,908</u>	<u>21,652</u>	<u>71,892</u>	<u>76,402</u>
Loss from operations	(3,438)	(13,832)	(17,547)	(59,689)
Other income (expense)				
Gain on sale of SEN	—	—	—	1,080
Equity loss of SEN	—	—	—	(3,238)
Interest income	15	59	69	152
Interest expense	—	—	—	(1,676)
Other, net	(1,996)	(1,681)	(2,061)	(3,197)
	<u>(1,981)</u>	<u>(1,622)</u>	<u>(1,992)</u>	<u>(6,879)</u>
Loss before income taxes	(5,419)	(15,454)	(19,539)	(66,568)
Income taxes	854	444	2,364	864
Net loss	<u>\$ (6,273)</u>	<u>\$ (15,898)</u>	<u>\$ (21,903)</u>	<u>\$ (67,432)</u>
Net loss per share				
Basic and diluted net loss per share	<u>\$ (0.06)</u>	<u>\$ (0.15)</u>	<u>\$ (0.21)</u>	<u>\$ (0.65)</u>
Shares used in computing basic and diluted net loss per share				
Weighted average common shares outstanding	<u>104,628</u>	<u>103,850</u>	<u>104,307</u>	<u>103,475</u>

See accompanying Notes to these Consolidated Financial Statements

**Axcelis Technologies, Inc.**  
**Consolidated Balance Sheets**  
(In thousands)  
(Unaudited)

	September 30, 2010	December 31, 2009
<b>ASSETS</b>		
Current assets		
Cash and cash equivalents	\$ 49,116	\$ 45,020
Restricted cash	3,742	4,918
Accounts receivable, net	40,957	19,094
Inventories, net	103,579	114,558
Prepaid expenses and other current assets	13,046	10,016
Total current assets	<u>210,440</u>	<u>193,606</u>
Property, plant and equipment, net	38,904	40,868
Long-term restricted cash	—	2,245
Other assets	9,004	13,884
	<u>\$ 258,348</u>	<u>\$ 250,603</u>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Current liabilities		
Accounts payable	\$ 25,507	\$ 9,680
Accrued compensation	10,828	9,267
Warranty	1,629	638
Income taxes	1,725	1,499
Deferred revenue	10,170	5,127
Other current liabilities	4,561	3,546
Total current liabilities	<u>54,420</u>	<u>29,757</u>
Long-term deferred revenue	1,365	563
Other long-term liabilities	<u>4,023</u>	<u>3,884</u>
Commitments and contingencies (Note 11)		
Stockholders' equity		
Preferred stock	—	—
Common stock	105	104
Additional paid-in capital	492,343	488,321
Treasury stock	(1,218)	(1,218)
Accumulated deficit	(297,850)	(275,947)
Accumulated other comprehensive income	5,160	5,139
	<u>198,540</u>	<u>216,399</u>
	<u>\$ 258,348</u>	<u>\$ 250,603</u>

See accompanying Notes to these Consolidated Financial Statements

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

	Nine months ended September 30,	
	2010	2009
<b>Cash flows from operating activities</b>		
Net loss	\$ (21,903)	\$ (67,432)
Adjustments to reconcile net loss to net cash used for operating activities		
Undistributed loss of SEN	—	3,238
Depreciation and amortization	5,367	5,593
Gain on sale of SEN	—	(1,080)
Accretion of premium on convertible debt	—	133
Stock-based compensation expense	2,953	3,594
Provision for excess inventory	1,734	9,268
Changes in operating assets & liabilities		
Accounts receivable	(21,890)	1,097
Inventories	9,282	18,091
Prepaid expenses and other current assets	(2,747)	6,468

Accounts payable & other current liabilities	20,386	(12,908)
Deferred revenue	5,852	(3,650)
Income taxes	201	480
Other assets and liabilities	2,357	(710)
Net cash provided by (used for) operating activities	1,592	(37,818)
<b>Cash flows from investing activities</b>		
Expenditures for property, plant, and equipment	(761)	(381)
Decrease in restricted cash	3,421	1,666
Proceeds from sale of SEN	—	132,847
Payments related to sale of SEN	—	(10,590)
Net cash provided by investing activities	2,660	123,542
<b>Cash flows from financing activities</b>		
Repayment of convertible debt	—	(83,344)
Financing fees and other expenses	(523)	—
Proceeds from exercise of stock options	104	—
Proceeds from Employee Stock Purchase Plan	206	65
Net cash used for financing activities	(213)	(83,279)
Effect of exchange rate changes on cash	57	1,105
Net increase in cash and cash equivalents	4,096	3,550
Cash and cash equivalents at beginning of period	45,020	37,694
Cash and cash equivalents at end of period	<u>\$ 49,116</u>	<u>\$ 41,244</u>

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 and Basis of Presentation

Axcelis Technologies, Inc. (“Axcelis” or the “Company”), is a worldwide producer of ion implantation, dry strip 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.

Until March 30, 2009, the Company owned 50% of the equity of a joint venture with Sumitomo Heavy Industries, Ltd. (“SHI”) in Japan. Detailed information about the Company’s investment in the joint venture is provided in Note 2.

During the nine months ended September 30, 2010, the Company experienced positive cash flows from operations of \$1.6 million, which reflects improved market conditions and working capital improvements. Cash and cash equivalents at September 30, 2010 were \$49.1 million, compared to \$47.9 million at June 30, 2010. The Company currently forecasts continued revenue growth in the fourth quarter. With inventories and receivables expected to build during revenue ramp up, we estimate we will use \$5 million to \$10 million of cash during the fourth quarter. The Company projects it will generate positive cash flow from operations beginning in the first quarter of 2011. During the nine months ended September 30, 2010 the Company continued to benefit from improving market conditions and increased capacity utilization at customers’ manufacturing facilities. Industry forecasts project this positive trend to continue throughout the remainder of 2010 and into 2011.

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, 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, 2009 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, 2009.

#### Note 2. Sale of Investment in SEN

Until March 30, 2009, the Company owned 50% of the equity of a joint venture with Sumitomo Heavy Industries, Ltd. (“SHI”) in Japan. This joint venture, which was known as SEN Corporation, an SHI and Axcelis Company (“SEN”), licensed technology from the Company relating to the manufacture of specified ion implantation products and had exclusive rights to manufacture and sell these products in the territory of Japan. On March 30, 2009, pursuant to a Share Purchase Agreement dated February 26, 2009, the Company sold to SHI all of the Company’s common shares in SEN in exchange for a cash payment of 13 billion Yen, which resulted in proceeds of approximately \$132.8 million before advisor fees and other expenses of \$10.6 million. The sales price was determined through an arm’s length negotiation. This transaction terminated all prior agreements among the three parties relating to the SEN joint venture. In addition, the arbitration with SEN initiated by Axcelis in Tokyo was dismissed.

In connection with the sale of its investment in SEN, on March 30, 2009, the Company and SEN entered into a License Agreement pursuant to which the parties have cross licensed each other to use certain patents and technical information on a non-exclusive, perpetual, royalty-free, worldwide basis, provided that the Company and SEN received sole exclusive licenses for 4 years in the U.S. and Japan, respectively. The licenses to technical information

cover only technical information shared by the parties prior to the date of the license, so the license to SEN does not cover technical information relating to the Optima HD and Optima XE. The license also excludes patents relating to Axcelis' work in molecular implant and certain patents developed for the Optima HD and Optima XE. The parties provided each other with limited warranties regarding their right to grant these licenses, and indemnity with respect thereto, but disclaim any warranty regarding the validity or freedom from infringement of the licensed intellectual property.

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Neither party will provide any support for the other party's use of the licensed intellectual property.

The sale of the Company's investment in SEN on March 30, 2009, resulted in a gain of approximately \$1.1 million. This gain includes net proceeds of \$122.2 million (after payment of advisor fees and other costs of \$10.6 million) and cumulative foreign translation gain of \$23.5 million, previously recorded in other comprehensive income, reduced by the carrying value of the investment on the date of sale of \$144.6 million. The gain from the sale of the Company's investment in SEN is recorded in other income.

On March 30, 2009, a portion of the proceeds of the sale were used to pay off, in full, the amounts due to the holder of the Company's 4.25% Convertible Senior Subordinated Notes. See Note 8.

**Note 3. Stock-Based Compensation**

The Company maintains the Axcelis Technologies, Inc. 2000 Stock Plan (the "2000 Plan"), a stock award and incentive plan which permits the issuance of options, restricted stock, restricted stock units and performance awards to selected employees, directors and consultants of the Company. The Company also maintains the Axcelis Technologies, Inc. Employee Stock Purchase Plan (the "ESPP"), an Internal Revenue Code Section 423 plan. The 2000 Plan and the ESPP are more fully described in Note 14 to the consolidated financial statements in the Company's 2009 Annual Report on Form 10-K.

Under Accounting Standards Codification Topic 718, the Company recognized stock-based compensation expense of \$1.4 million and \$3.0 million for the three and nine months ended September 30, 2010, respectively. For the three and nine months ended September 30, 2009, the Company recognized stock-based compensation expense of \$2.3 million and \$3.6 million respectively. These amounts include the impact of recognizing compensation expense related to restricted stock units, restricted stock, non-qualified stock options and stock issued under the ESPP.

**Note 4. Net Loss Per Share**

Basic earnings per share is computed by dividing income available to common stockholders (the numerator) by the weighted-average number of common shares outstanding (the denominator) for the period. The computation of diluted earnings per share is similar to basic earnings per share, except that the denominator is increased to include additional common shares that would have been outstanding if the potentially dilutive common shares had been issued. Because the Company has net losses for the three and nine month periods ended September 30, 2010 and 2009, any potentially dilutive common shares related to outstanding stock options, restricted stock units or convertible debt have been excluded from the calculation of net loss per share because the effect would be anti-dilutive.

**Note 5. Comprehensive Income**

The components of comprehensive income are as follows:

	Three months ended September 30,		Nine months ended September 30,	
	2010	2009	2010	2009
	(in thousands)		(in thousands)	
Net loss	\$ (6,273)	\$ (15,898)	\$ (21,903)	\$ (67,432)
Other comprehensive income				
Foreign currency translation adjustments	4,124	2,620	21	(6,346)
	<u>\$ (2,149)</u>	<u>\$ (13,278)</u>	<u>\$ (21,882)</u>	<u>\$ (73,778)</u>

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**Note 6. Inventories**

The components of inventories are as follows:

	September 30, 2010	December 31, 2009
	(in thousands)	
Raw materials	\$ 69,915	\$ 69,661
Work in process	27,265	27,654
Finished goods (completed systems)	6,399	17,243
	<u>\$ 103,579</u>	<u>\$ 114,558</u>

When recorded, reserves reduce the carrying value of inventory to its 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 inventory based on a combination of factors including: 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, 2010 and December 31, 2009, inventory is stated net of reserves of \$27.4 million and \$37.0 million, respectively.

## Note 7. Product Warranty

The Company offers a one to three year warranty for all of its products, 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.

Changes in the Company's product warranty liability are as follows:

	Nine months ended September 30,	
	2010	2009
	(in thousands)	
Balance at December 31	\$ 726	\$ 3,530
Warranties issued during the period	2,242	736
Settlements made during the period	(1,356)	(1,945)
Changes in estimate of liability for pre-existing warranties during the period	185	(1,200)
Balance at September 30	<u>\$ 1,797</u>	<u>\$ 1,121</u>
Amount classified as current	\$ 1,629	\$ 1,029
Amount classified as long-term	168	92
Total Warranty Liability	<u>\$ 1,797</u>	<u>\$ 1,121</u>

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## Note 8. Financial Arrangements

### Bank Credit Facility

On March 12, 2010, the Company amended its existing revolving credit facility with a bank. The amended agreement provides for borrowings up to the lesser of \$20 million or specified percentages of the amounts of qualifying accounts receivable and inventory. The facility has certain financial covenants requiring the Company to maintain minimum levels of operating results and liquidity. Borrowings made under the facility will bear interest at the greater of 6.0% or the bank's prime rate (3.25% at September 30, 2010) plus 2.0%. The agreement will terminate on March 11, 2011. Bank fees and amortization of deferred financing expenses related to its revolving credit facilities were \$0.2 million for the three months ended September 30, 2010, compared with \$0.1 million in the three months ended September 30, 2009. Bank fees were \$0.6 million for the nine months ended September 30, 2010, compared with \$0.5 million for the nine months ended September 30, 2009.

On May 25, 2010 the Company and its lender agreed to modify a financial covenant in the revolving credit facility regarding maximum allowable quarterly losses. Based on current forecasts, as modified, the Company believes it will be in compliance with the financial covenants during the remaining term of the facility.

### Convertible Subordinated Debt

On March 30, 2009, Axcelis used a portion of the proceeds of the sale of its interest in SEN (see Note 2) to pay all amounts due (approximately \$85 million) under an Indenture between Axcelis and U.S. Bank National Association, as trustee, relating to the Company's 4.25% Convertible Senior Subordinated Notes, resulting in an extinguishment of the debt in full.

## Note 9. Income Taxes

Income tax expense relates principally to operating results of foreign entities in jurisdictions, primarily in Asia, where the Company earns taxable income. The Company has significant net operating losses in the United States and certain foreign tax jurisdictions and, as a result, does not pay significant income taxes in those jurisdictions. Accordingly, the effective income tax rate is not meaningful.

## Note 10. Significant Customers

For the three months ended September 30, 2010, one customer accounted for approximately 17.9% of revenue. For the nine months ended September 30, 2010, one customer accounted for 14.9% of revenue. For the three months ended September 30, 2009, two customers accounted for approximately 14.8% and 10.0% of revenue, respectively. For the nine months ended September 30, 2009, no single customer accounted for more than 10.0% of revenue.

## Note 11. Contingencies

### Litigation

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.

### 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

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## **Note 12. Recent Accounting Pronouncements**

In September 2009, the FASB issued a new accounting standard to provide guidance on revenue recognition criteria for multiple-element arrangements. The new accounting standard modifies the criteria used to separate elements in a multiple-element arrangement by introducing the concept of best estimate of selling price, establishing a hierarchy of evidence for determining selling price (fair value), requiring the use of relative selling price method and prohibiting the use of the residual method to allocate arrangement consideration among units of accounting. The new accounting standard also expands the disclosure requirements for all multiple element arrangements and is effective prospectively for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010 (January 1, 2011 for a calendar year-end entity). The Company is currently evaluating the impact of adopting this pronouncement.

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

Certain statements in "Management's Discussion and Analysis of Financial Condition and Results of Operations" and elsewhere in this Form 10-Q are forward-looking statements that involve risks and uncertainties. Words such as may, will, should, would, anticipates, expects, intends, plans, believes, seeks, estimates and similar expressions identify such forward-looking statements. The forward-looking statements contained herein are based on current expectations and entail various risks and uncertainties that could cause actual results to differ materially from those expressed in such forward-looking statements. Factors that might cause such a difference include, among other things, those set forth under "Liquidity and Capital Resources," and "Risk Factors" and others discussed elsewhere in this Form 10-Q. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect management's analysis only as of the date hereof. We assume no obligation to update these forward-looking statements to reflect actual results or changes in factors or assumptions affecting forward-looking statements, except as may be required by law.

### **Overview**

The semiconductor capital equipment industry is subject to significant cyclical swings in capital spending by semiconductor manufacturers. Capital spending is influenced by demand for semiconductors and the products using them, the utilization rate and capacity of existing semiconductor manufacturing facilities and changes in semiconductor technology, all of which are outside of our control. As a result, our revenue and gross margins fluctuate from year to year and period to period. The industry experienced a downturn beginning in the second half of 2008 which extended through 2009, although signs of improvement began during the fourth quarter of 2009 and have continued through the first nine months of 2010. Our gross margins are also affected by the introduction of new products. We typically become more efficient in manufacturing products as they mature. Our expense base is largely fixed and does not vary significantly with changes in volume. Therefore, we experience fluctuations in operating results and cash flows depending on our revenue as driven by the level of capital expenditures by semiconductor manufacturers.

The sizable expense of building, upgrading or expanding a semiconductor fabrication facility is increasingly causing semiconductor companies to contract with foundries to manufacture their semiconductors. In addition, consolidation and partnering within the semiconductor manufacturing industry is increasing. We expect these trends to continue to reduce the number of our potential customers. This growing concentration of Axcelis' customers may increase pricing pressure as higher percentages of our total revenue are tied to the buying decisions of a particular customer or a small number of customers.

During the last six months of 2008 and through 2009 challenging market conditions severely limited our ability to increase sales and market share. During this period, adverse market conditions such as credit constriction, higher unemployment, lower corporate earnings, lower business investment and lower consumer spending severely impacted many technology manufacturers and significantly lowered the demand for our products. During the three and nine months ended September 30, 2010, the market for our products have steadily improved. We also estimate we are gaining market share with our single wafer ion implant systems for high current and high energy applications (the Optima HDx and Optima XEx), as customers are showing a higher acceptance of our technology. Our expense base is reduced from earlier periods due to cost reduction initiatives implemented in 2009 and 2008.

Operating results for the periods presented are not necessarily indicative of the results that may be expected for future interim periods or years as a whole.

### **Critical Accounting Estimates**

Management's discussion and analysis of our financial condition and results of operations 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, revenues and expenses, and related disclosure of contingent assets and liabilities. On an on-going basis, we evaluate our estimates, including those related to revenue recognition, income taxes, accounts receivable, inventory and warranty obligations. 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

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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.

There has been no material change in the nature of our critical accounting estimates and judgments as described in Management's Discussion and Analysis of Financial Condition and Results of Operations included in our Annual Report on Form 10-K for the year ended December 31, 2009.

## Results of Operations

The following table sets forth our results of operations as a percentage of revenue for the periods indicated:

**Axcelis Technologies, Inc.**  
**Consolidated Statements of Operations**  
**Percentage of Revenue**  
**(Unaudited)**

	Three months ended September 30,		Nine months ended September 30,	
	2010	2009	2010	2009
Revenue				
Product	88.1%	73.9%	86.4%	73.6%
Service	11.9	26.1	13.6	26.0
Royalties from SEN	0.0	0.0	0.0	0.4
Total revenue	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>
Cost of revenue				
Product	63.7	61.9	61.5	66.4
Service	7.7	15.7	8.6	15.9
Total cost of revenue	<u>71.4</u>	<u>77.6</u>	<u>70.1</u>	<u>82.3</u>
Gross profit	28.6	22.4	29.9	17.7
Operating expenses				
Research and development	13.2	21.8	15.6	26.4
Sales and marketing	9.5	16.3	11.2	20.0
General and administrative	10.5	22.5	12.7	28.7
Restructuring charges	0.0	1.2	0.0	5.9
Total operating expenses	<u>33.2</u>	<u>61.8</u>	<u>39.5</u>	<u>81.0</u>
Loss from operations	(4.6)	(39.4)	(9.6)	(63.3)
Other income (expense)				
Gain on sale of SEN	0.0	0.0	0.0	1.1
Equity loss of SEN	0.0	0.0	0.0	(3.4)
Interest income	0.0	0.2	0.0	0.2
Interest expense	0.0	0.0	0.0	(1.8)
Other, net	(2.6)	(4.8)	(1.1)	(3.4)
Total other income (expense)	<u>(2.6)</u>	<u>(4.6)</u>	<u>(1.1)</u>	<u>(7.3)</u>
Loss before income taxes	(7.2)	(44.0)	(10.7)	(70.6)
Income taxes	1.2	1.3	1.3	0.9
Net loss	<u>(8.4)%</u>	<u>(45.3)%</u>	<u>(12.0)%</u>	<u>(71.5)%</u>

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**Three and nine months ended September 30, 2010 in comparison to the three and nine months ended September 30, 2009**

**Revenue**

*Product*

Product revenue, which includes systems sales, sales of spare parts and product upgrades, was \$66.2 million, or 88.1% of revenue, for the three months ended September 30, 2010, compared with \$25.9 million, or 73.9% of revenue for the three months ended September 30, 2009. Product revenue was \$157.1 million, or 86.4% of revenue for the nine months ended September 30, 2010, compared with \$69.4 million, or 73.6% of revenue for the nine months ended September 30, 2009. System sales were \$39.1 million, or 52.1% of revenue, for the three months ended September 30, 2010, compared with \$10.1 million, or 28.8% of revenue, for the three months ended September 30, 2009. System sales were \$77.3 million, or 42.5% of revenue, for the nine months ended September 30, 2010, compared with \$26.7 million, or 28.3% of revenue, for the nine months ended September 30, 2009. The increase in product revenue in the three and nine month period ended September 30, 2010 is attributable to the strengthening of the semiconductor market and a related increase in capital spending by semiconductor manufacturers. In addition, we also believe we are gaining market share with our single wafer ion implant systems for high current and high energy applications (the Optima HDx and Optima XEx), as customers are showing a higher acceptance of our technology.

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, 2010 and 2009 was \$11.5 million and \$10.8 million, respectively. The increase was mainly due to the increase in systems sales in 2010.



## Service

Service revenue, which includes the labor component of maintenance and service contracts and fees for service hours provided by on-site service personnel, was \$8.9 million, or 11.9% of revenue, for the three months ended September 30, 2010, compared with \$9.1 million, or 26.1% of revenue, for the three months ended September 30, 2009. Service revenue was \$24.7 million, or 13.6% of revenue for the nine months ended September 30, 2010, compared with \$24.5 million, or 26.0% of revenue for the nine months ended September 30, 2009. Although service 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. The slight increase during the nine months ended September 30, 2010 was due to an increase in fabrication utilization in the semiconductor industry.

## Royalties

Royalties were previously earned under our prior license agreement with SEN. As a result of the sale of our investment in SEN, SEN has had no further royalty obligations since March 30, 2009.

## Ion Implant

Included in total revenue of \$75.1 million for the three month period ended September 30, 2010, is revenue from sales of ion implantation products and service of \$64.2 million, or 85.5% of total revenue, compared with \$28.1 million, or 80.2% of total revenue, for the three months ended September 30, 2009. Revenue from sales of ion implantation products and service accounted for \$153.2 million, or 84.3% of revenue, for the nine months ended September 30, 2010, compared to \$77.7 million, or 82.2% of revenue, in the nine months ended September 30, 2009. The dollar increase was due to the factors discussed above for product revenue.

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### Aftermarket

The Company's product revenues include sales of spare parts and product upgrades as well as complete systems. We refer to the business of selling spare parts and product upgrades, combined with the sale of maintenance labor and service contracts and service hours, as the "aftermarket" business. Included in total revenue of \$75.1 million is revenue from our aftermarket business of \$36.0 million for the three months ended September 30, 2010, compared to \$24.9 million for the three months ended September 30, 2009. The revenue from our aftermarket business was \$104.5 million for the nine months ended September 30, 2010, compared to \$67.2 million for the nine months ended September 30, 2009. Aftermarket revenue generally increases with expansion of the installed base of systems but can fluctuate period to period based on capacity utilization at customers' manufacturing facilities, which affects the sale of spare parts and demand for equipment service.

### Gross Profit

#### Product

Gross profit from product revenue was 27.7% for the three months ended September 30, 2010, compared to gross profit of 16.2% for the three months ended September 30, 2009. Approximately 2.1% of the 11.5% increase resulted from a lower provision for excess inventory. The remaining 9.4% increase in gross profit from product revenues is attributable to higher systems sales volume and the related favorable absorption of fixed overhead costs, which increased gross margins by 20.1%, offset by a 10.7% decrease in gross margin resulting from an unfavorable mix of parts and upgrade revenue. Gross profit from product revenue was 28.8% for the nine months ended September 30, 2010, compared with 9.8% for the nine months ended September 30, 2009. Approximately 4.8% of the 19.0% increase resulted from a lower provision for excess inventory. The remaining 14.2% increase in gross profit from product revenue is attributable to the higher systems sales volume during the nine months ended September 30, 2010 and the related favorable absorption of manufacturing overhead which increased gross margins by 17.4%, offset by a 3.2% decrease in gross margin resulting from the unfavorable impact of a decreased mix of parts and upgrade revenue at higher margins.

#### Service

Gross profit from service revenue was 35.3% for the three months ended September 30, 2010, compared to 39.7% for the three months ended September 30, 2009. The decrease in gross profit is attributable to lower volumes. Gross profit from service revenue was 36.8% for the nine months ended September 30, 2010, compared to 38.8% for the nine months ended September 30, 2009. The decrease in gross profit is attributable to changes in the mix of service contracts.

### Research and Development

Research and development expense was \$9.9 million in the three months ended September 30, 2010, an increase of \$2.3 million, or 30.3%, compared with \$7.6 million in the three months ended September 30, 2009. The increase was primarily due to increased payroll costs (\$1.1 million), increased consulting costs (\$0.9 million) and increased project material costs (\$0.2 million). Research and development expense was \$28.5 million for the nine months ended September 30, 2010, an increase of \$3.6 million or 14.5%, compared with \$24.9 million for the nine months ended September 30, 2009. The increase was comprised of increased payroll

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costs (\$1.2 million), increased consulting costs (\$1.5 million), increased project material costs (\$0.8 million), and increased development asset amortization and depreciation costs (\$0.1 million). Research and development expense was attributable to the following activities for the nine months ended September 30, 2010: 51% for new product development, 32% for improvement of existing products, and 17% for product testing.

## Sales and Marketing

In general the increase in sales and marketing expense is indicative of the improved market for our products. Sales and marketing expense was \$7.2 million in the three months ended September 30, 2010, an increase of \$1.5 million, or 26.3%, compared with \$5.7 million for the three months ended September 30, 2009. The increase was primarily due to increased supplies and marketing service expenses of (\$0.7 million), increased professional fee expenses (\$0.3 million), increased travel costs (\$0.3 million) and increased freight expenses (\$0.3 million). Sales and marketing expense was \$20.4 million for the nine months ended September 30, 2010, an increase of \$1.5 million, or 7.9%, compared with \$18.9 million for the nine months ended September 30, 2009. The increase was driven primarily by increased supplies and marketing service expenses (\$0.8 million), increased travel costs (\$0.8 million), increased freight expenses (\$0.4 million), increased professional fees (\$0.3 million), offset by decreased payroll costs (\$0.3 million), decreased other miscellaneous expense (\$0.3 million) and decreased taxes (\$0.2 million).

## General and Administrative

General and administrative expense was \$7.9 million for the three months ended September 30, 2010, equal to the spending in the three months ended September 30, 2009. General and administrative expense was \$23.0 million for the nine months ended September 30, 2010, a decrease of \$4.1 million, or 15.1%, compared with \$27.1 million in the nine months ended September 30, 2009. The decrease was primarily due to decreased professional fee expenses (\$5.0 million) and decreased other miscellaneous expense (\$0.3 million), offset by increased payroll expense (\$1.2 million).

## Restructuring

The company incurred no restructuring charges for the three and nine months ended September 30, 2010. During the three and nine months ended September 30, 2009, we implemented a reduction in force to further reduce costs to mitigate deteriorating industry fundamentals. This reduction in force resulted in a total charge to expense of approximately \$6.1 million related to separation and outplacement costs for the nine months ended September 30, 2009, offset by a reversal of \$0.6 million of accrued compensation expense related to terminated employees. A charge to expense of \$0.4 million was recorded in the three months ended September 30, 2009.

## Other Income (Expense)

The sale of the Company's investment in SEN resulted in a gain of approximately \$1.1 million for the nine months ended September 30, 2009. This gain includes net proceeds of \$122.2 million and cumulative foreign translation gain of \$23.5 million, previously recorded in other comprehensive income, reduced by the carrying value of the investment on the date of sale of \$144.6 million.

No equity loss or income was attributable to SEN for the three months ended September 30, 2009. Equity loss attributable to SEN was \$3.2 million for the nine months ended September 30, 2009. As a result of the sale of the Company's investment in SEN, subsequent to March 30, 2009, the Company no longer records equity income or loss from SEN.

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We had no interest expense for the three and nine months ended September 30, 2010. Interest expense decreased by \$1.7 million for the nine months ended September 30, 2010 compared to the nine months ended September 30, 2009. The decrease is due to the payment in full of the convertible senior subordinated notes on March 30, 2009. At September 30, 2010 the Company had no outstanding obligations incurring interest.

For the three and nine months ended September 30, 2010 the Company incurred \$1.5 million and \$0.9 million of non-cash foreign exchange losses compared to \$1.0 million and \$1.9 million for the comparable period of the prior year. For all periods presented, the primary reason for the non-cash charge was due to the weakening of the U.S dollar. Beginning in the fourth quarter of 2010 the Company instituted a hedging program to reduce the impact of currency fluctuations.

## Income Taxes

We incur income tax expense relating principally to operating results of foreign entities in jurisdictions, principally in Asia, where we earn taxable income. We have significant net operating loss carryforwards in the United States and certain foreign jurisdictions, principally Europe, and, as a result, we do not currently pay significant income taxes in those jurisdictions and we do not recognize the tax benefit for such losses as discussed in Note 9 to the consolidated financial statements. Accordingly, our effective income tax rate is not meaningful.

## Liquidity and Capital Resources

Our liquidity is affected by many factors. Some of these relate specifically to the operations of our business, for example, the rate of acceptance of the Optima product line, and others relate to the uncertainties of global economies, including the availability of credit, and the condition of the overall semiconductor equipment industry.

We have net operating loss and tax credit carryforwards which are available to reduce future income tax liabilities in the United States and certain foreign jurisdictions. These carryforwards, which expire principally between 2018 and 2028, had an aggregate tax effect of \$90.2 million at December 31, 2009. The sale of our investment in SEN generated taxable income which we offset with existing net operating loss carry forwards.

During the nine months ended September 30, 2010, we experienced positive cash flows from operations. Cash and cash equivalents at September 30, 2010 were \$49.1 million, compared to \$45.0 million at December 31, 2009.

On March 12, 2010, we amended our existing revolving credit facility with a bank. The amended agreement provides for borrowings up to the lesser of \$20 million or specified percentages of the amounts of qualifying accounts receivable and inventory. The facility has certain financial covenants requiring us to maintain minimum levels of operating results and liquidity. On May 25, 2010 the Company and its lender agreed to modify a financial covenant in the revolving credit facility regarding maximum allowable quarterly losses. Based on current forecasts, the Company believes it will be in compliance with the financial covenants, as modified, throughout 2010. We have not borrowed under this facility during 2010. The facility terminates on March 11, 2011. We do

use the facility to support letters of credit and hedging transactions. We believe that based on our current market, revenue and expense forecasts, our existing cash and cash equivalents will be sufficient to satisfy our anticipated cash requirements for the foreseeable future. Our 2010 forecast reflects revenue and gross margins consistent with our understanding of customer plans, the improving market conditions currently forecasted by the industry (and experienced by the Company to date in 2010), and capacity utilization at customers' manufacturing facilities. Forecasted operating expense levels are based on 2010 run rates.

### **Recent Accounting Pronouncements**

In September 2009, the FASB issued a new accounting standard to provide guidance on revenue recognition criteria for multiple-element arrangements. The new accounting standard modifies the criteria used to separate elements in a multiple-element arrangement by introducing the concept of best estimate of selling price, establishing a hierarchy of evidence for determining selling price (fair value), requiring the use of relative selling price method and prohibiting the use of the residual method to allocate arrangement consideration among units of accounting. The new accounting standard also expands the disclosure requirements for all multiple element arrangements and is effective prospectively for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010 (January 1, 2011 for a calendar year-end entity). The Company is currently evaluating the impact of adopting this pronouncement.

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### **Item 3. Quantitative and Qualitative Disclosures about Market Risk.**

As of September 30, 2010, there have been no material changes to the information about market risk disclosed in Item 7A to our annual report on Form 10-K for the year ended December 31, 2009.

### **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 third quarter of 2010 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 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.

### **Item 1A. Risk Factors.**

As of September 30, 2010, 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, 2009.

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

None.

### **Item 3. Defaults Upon Senior Securities.**

None.

### **Item 4. (Removed and Reserved).**

### **Item 5. Other Information.**

None.

### **Item 6. Exhibits.**

The following exhibits are filed herewith:

Exhibit No	Description
3.1	Amended and Restated Certificate of Incorporation of the Company. 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 quarter 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, 2010. 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, 2010. 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, 2010. 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, 2010. Filed herewith.

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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.

/S/ STEPHEN G. BASSETT

DATED: November 5, 2010

By: Stephen G. Bassett  
 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 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 that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors:
  - (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, 2010

/s/ MARY G. PUMA

Mary G. Puma, *Chairman, Chief Executive Officer and President*

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

I, Stephen G. Bassett, 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 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 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:
  - (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, 2010

/s/ STEPHEN G. BASSETT

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Stephen G. Bassett, *Executive Vice President and Chief Financial Officer*

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**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, 2010.

/s/ Mary G. Puma

Mary G. Puma

Chairman, Chief Executive Officer and President of  
Axcelis Technologies, Inc.

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**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, 2010.

/s/ Stephen G. Bassett

Stephen G. Bassett

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

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