

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM 10-K/A

AMENDMENT NO. 1 TO FORM 10-K

(Mark one)

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

For the fiscal year ended December 31, 2008

**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)

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of class</u>	<u>Name of each exchange on which registered</u>
None	None

Securities registered pursuant to Section 12(g) of the Act:

**Common Stock, \$0.001 par value
Preferred Share Purchase Rights**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

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 if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

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

Aggregate market value of the voting stock held by non-affiliates of the registrant as of June 30, 2008: \$497,275,221.

Number of shares outstanding of the registrant's Common Stock, \$0.001 par value, as of March 27, 2009: 103,283,850.

Documents incorporated by reference:

Portions of the definitive Proxy Statement for Axcelis Technologies, Inc.'s Annual Meeting of Stockholders held on May 1, 2008 are incorporated by reference into Part III of this Form 10-K.

EXPLANATORY NOTE

We are filing this amendment to our Annual Report on Form 10-K for the fiscal year ended December 31, 2008 originally filed with the Commission on March 31, 2009 (the "Original 2008 Form 10-K"). This amendment to our Annual Report on Form 10-K for the fiscal year ended December 31, 2008 supplements Item 15 (Exhibits, Financial Statement Schedules), which was filed with our original 2008 Form 10-K. This Form 10-K/A files the financial statements of SEN Corporation, an SHI and Axcelis Company ("SEN") as of March 31, 2008 and 2007 and the related financial statements for each of the three years in the period ended March 31, 2008 (the "SEN Financial Statements"). The SEN Financial Statements were previously filed under a Form 10-K/A on September 29, 2008 and have been updated for this filing with Note 17 on Subsequent Events regarding the Company's sale of its shares in SEN, the entry into a License Agreement with SEN on March 30, 2009, and the termination of arbitration between Axcelis and SEN.

Item 15. Exhibits, Financial Statement Schedules

(a) The following documents are filed as part of the Company's Form 10-K, as originally filed on March 31, 2009, and as amended by this form 10-K/A:

(1)(A) Financial Statements of Axcelis Technologies, Inc.:

Report of Independent Registered Public Accounting Firm

Consolidated Statements of Operations — For the years ended December 31, 2008, 2007 and 2006

Consolidated Balance Sheets — December 31, 2008 and 2007

Consolidated Statements of Stockholders' Equity — For the years ended December 31, 2008, 2007 and 2006

Consolidated Statements of Cash Flows — For the years ended December 31, 2008, 2007 and 2006

Notes to Consolidated Financial Statements

(1)(B) Financial Statements of SEN Corporation, an SHI and Axcelis Company:

Report of Independent Auditors

Consolidated Statements of Income — For the years ended March 31, 2006, 2007 and 2008

Consolidated Balance Sheets — March 31, 2007 and 2008

Consolidated Statements of Stockholders' Equity — For the years ended March 31, 2006, 2007 and 2008

Consolidated Statements of Cash Flows — For the years ended March 31, 2006, 2007 and 2008

(2) Financial Statement Schedules:

Schedule II — Valuation and Qualifying Accounts for the years ended December 31, 2008, 2007 and 2006

All other schedules for which provision is made in the applicable regulation of the Securities and Exchange Commission are not required under the related instructions or are inapplicable, and therefore have been omitted.

(b) Exhibits

The exhibits filed as part of this Form 10-K are listed on the Exhibit Index immediately preceding such Exhibits, which Exhibit Index is incorporated herein by reference.

(c) Financial Statement Schedules

The response to this portion of Item 15 is submitted as a separate section of this report.

Consolidated Financial Statements

As of March 31, 2007 and 2008 and
for the years ended March 31, 2006, 2007 and 2008

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The Board of Directors
SEN Corporation, an SHI and Axcelis Company

We have audited the accompanying consolidated balance sheets of SEN Corporation, an SHI and Axcelis Company (the "Company") as of March 31, 2008 and 2007, and the related consolidated statements of income, shareholders' equity, and cash flows for each of the three years in the period ended March 31, 2008, all expressed in Japanese yen. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. We were not engaged to perform an audit of the Company's internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion the financial statements referred to above present fairly, in all material respects, the consolidated financial position of the Company, at March 31, 2008 and 2007, and the consolidated results of its operations and cash flows for each of the three years in the period ended March 31, 2008, in conformity with generally accepted accounting principles in the United States.

As discussed in Note 10 to the consolidated financial statements, the Company adopted the recognition provisions of Statement of Financial Accounting Standards No. 158, Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans - An Amendment of FASB Statements No. 87, 88, 106 and 132(R) effective on March 31, 2008.

We also have recomputed the translation of the consolidated financial statements as of and for the year ended March 31, 2008 into United States dollars. In our opinion, the consolidated financial statements expressed in Japanese yen have been translated into United States dollars on the basis described in Note 2.

Tokyo, Japan
September 19, 2008, except for Note 17, as to which the date is June 29, 2009

/s/ Ernst & Young ShinNihon LLC

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SEN Corporation, an SHI and Axcelis Company

Consolidated Statements of Income

	Years ended March 31,			Year ended
	2006	2007	2008	March 31, 2008
	(Thousands of yen)			(U.S. dollars in thousands)
Net sales:				
Systems	¥ 20,026,152	¥ 24,261,306	¥ 14,273,320	\$ 142,462
Services	7,831,507	8,336,320	7,914,660	78,997
Total sales	27,857,659	32,597,626	22,187,980	221,459
Cost of sales	15,660,181	18,787,848	14,346,690	143,195
Gross profit	12,197,478	13,809,778	7,841,290	78,264
Research and development	2,271,112	2,683,775	2,548,820	25,440
Selling, general and administrative expenses	3,851,467	4,037,048	3,739,777	37,327
Income from operations	6,074,899	7,088,955	1,552,693	15,497
Non-operating income	—	21,690	52,521	524
Non-operating expenses	11,002	10,391	2,869	28
Income before income taxes	6,063,897	7,100,254	1,602,345	15,993
Income taxes (benefit):				
Current	2,023,686	2,764,273	556,082	5,551
Deferred	184,847	(85,646)	(64,584)	(645)
	2,208,533	2,678,627	491,498	4,906
Net income	¥ 3,855,364	¥ 4,421,627	¥ 1,110,847	\$ 11,087

See accompanying notes to consolidated financial statements.

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Consolidated Balance Sheets

	March 31,		March 31,
	2007	2008	2008
	(Thousands of yen)		(U.S. dollars in thousands)
Assets			
Current assets:			
Cash and cash equivalents	¥ 6,136,016	¥ 13,754,739	\$ 137,287
Trade receivables, net	22,552,485	9,928,011	99,092
Due from SHI and affiliates	1,456	7,675	77
Due from Axcelis and affiliates	60,575	97,130	969
Inventories	8,186,374	8,633,492	86,171
Deferred tax assets	426,223	479,823	4,789
Other current assets	46,022	36,773	367
Total current assets	37,409,151	32,937,643	328,752
Property, plant and equipment, net	2,642,516	2,341,199	23,368
Deferred tax assets	275,988	377,023	3,763
Other assets	366,350	272,594	2,720
Total assets	¥ 40,694,005	¥ 35,928,459	\$ 358,603
Liabilities and shareholders' equity			
Current liabilities:			
Trade payables:			
Notes	¥ 2,398,831	¥ 1,613,993	\$ 16,109
Accounts	3,232,634	2,484,181	24,795
Total trade payables	5,631,465	4,098,174	40,904
Due to SHI and affiliates	1,403,727	601,265	6,002
Due to Axcelis and affiliates	527,713	278,662	2,781
Income taxes payable	1,816,063	281,863	2,813
Accrued bonuses	480,918	458,234	4,574
Other current liabilities	285,397	149,879	1,496
Total current liabilities	10,145,283	5,868,077	58,570
Accrued retirement benefits	—	178,286	1,779
Total liabilities	10,145,283	6,046,363	60,349
Shareholders' equity:			
Capital stock:			
Authorized — 20,000 shares			
Issued and outstanding — 12,000 shares	600,000	600,000	5,989
Legal reserve	150,000	150,000	1,497
Retained earnings	29,798,722	29,264,722	292,091
Accumulated other comprehensive loss	—	(132,626)	(1,323)
Total shareholders' equity	30,548,722	29,882,096	298,254
Total liabilities and shareholders' equity	¥ 40,694,005	¥ 35,928,459	\$ 358,603

See accompanying notes to consolidated financial statements.

SEN Corporation, an SHI and Axcelis Company

Consolidated Statements of Shareholders' Equity

	Number of issued shares	Capital stock	Legal reserve	Retained earnings	Accumulated other comprehensive loss	Total shareholders' equity
	(Thousands of yen, except number of shares)					
Balance at March 31, 2005	12,000	¥ 600,000	¥ 150,000	¥ 23,017,152	¥ —	¥ 23,767,152
Comprehensive income:						
Net income	—	—	—	3,855,364	—	3,855,364
Comprehensive income						3,855,364
Cash dividends	—	—	—	(120,000)	—	(120,000)
Balance at March 31, 2006	12,000	¥ 600,000	¥ 150,000	¥ 26,752,516	¥ —	¥ 27,502,516
Comprehensive income:						
Net income	—	—	—	4,421,627	—	4,421,627
Comprehensive income						4,421,627
Cash dividends	—	—	—	(1,375,421)	—	(1,375,421)
Balance at March 31, 2007	12,000	¥ 600,000	¥ 150,000	¥ 29,798,722	¥ —	¥ 30,548,722
Comprehensive income:						
Net income	—	—	—	1,110,847	—	1,110,847
Comprehensive income						1,110,847
Adjustment to initially apply FASB Statement	—	—	—	—	(132,626)	(132,626)

No. 158 (net of income tax of ¥ 90,050)				(1,644,847)		(1,644,847)
Cash dividends						
Balance at March 31, 2008	<u>12,000</u>	<u>¥ 600,000</u>	<u>¥ 150,000</u>	<u>¥ 29,264,722</u>	<u>¥ (132,626)</u>	<u>¥ 29,882,096</u>

	Number of issued shares	Capital Stock	Legal reserve	Retained Earnings	Accumulated other comprehensive loss	Total shareholders' equity
(U.S. dollars in thousands, except number of shares)						
Balance at March 31, 2007	<u>12,000</u>	<u>\$ 5,989</u>	<u>\$ 1,497</u>	<u>\$ 297,421</u>	<u>\$ —</u>	<u>\$ 304,907</u>
Comprehensive income:						
Net income	—	—	—	11,087	—	11,087
Comprehensive income						11,087
Adjustment to initially apply FASB Statement No. 158 (net of income tax \$899)	—	—	—	—	(1,323)	(1,323)
Cash dividends	—	—	—	(16,417)	—	(16,417)
Balance at March 31, 2008	<u>12,000</u>	<u>\$ 5,989</u>	<u>\$ 1,497</u>	<u>\$ 292,091</u>	<u>\$ (1,323)</u>	<u>\$ 298,254</u>

See accompanying notes to consolidated financial statements.

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SEN Corporation, an SHI and Axcelis Company

Consolidated Statements of Cash Flows

	Year ended March 31,			Year ended
	2006	2007	2008	March 31, 2008
(Thousands of yen)				(U.S. dollars in thousands)
Operating activities				
Net income	¥ 3,855,364	¥ 4,421,627	¥ 1,110,847	\$ 11,087
Adjustments to reconcile net income to net cash (used in) provided by operating activities:				
Depreciation and amortization	402,684	480,787	467,293	4,664
Loss on fixed asset disposal	6,699	10,391	2,869	29
Deferred income taxes (benefit) provision	184,847	(85,646)	(64,585)	(645)
Changes in operating assets and liabilities:				
Trade receivables	(1,497,284)	(6,144,355)	12,624,474	126,005
Due from/ to SHI and affiliates	133,902	95,021	(808,681)	(8,071)
Due from/ to Axcelis and affiliates	(189,319)	104,416	(285,606)	(2,851)
Inventories	(963,531)	(1,172,145)	(447,118)	(4,463)
Trade accounts and notes payables	276,339	579,623	(1,533,291)	(15,304)
Income taxes payable	(1,611,852)	568,705	(1,534,200)	(15,313)
Other, net	(587,765)	173,060	(151,827)	(645)
Net cash (used in) provided by operating activities	10,084	(968,516)	9,380,175	93,624
Investing activities				
Purchases of property, plant and equipment	(398,440)	(356,881)	(116,605)	(1,164)
Net cash used in investing activities	(398,440)	(356,881)	(116,605)	(1,164)
Financing activities				
Cash dividends paid	(120,000)	(1,375,421)	(1,644,847)	(16,417)
Net cash used in financing activities	(120,000)	(1,375,421)	(1,644,847)	(16,417)
Net (decrease) increase in cash and cash equivalents	(508,356)	(2,700,818)	7,618,723	76,043
Cash and cash equivalents at beginning of the year	9,345,190	8,836,834	6,136,016	61,244
Cash and cash equivalents at end of the year	<u>¥ 8,836,834</u>	<u>¥ 6,136,016</u>	<u>¥ 13,754,739</u>	<u>\$ 137,287</u>
Supplementary information				
Income taxes paid during the year	¥ 3,676,965	¥ 2,264,769	¥ 2,090,734	\$ 20,868

See accompanying notes to consolidated financial statements.

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SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements

Note 1. Nature of Business and Significant Accounting Policies

General

SEN Corporation, an SHI and Axcelis Company (the “Company”), was established on April 1, 1983 under the Commercial Code of Japan. The Company is owned equally by Sumitomo Heavy Industries, Ltd. (“SHI”), a Japanese corporation, and Axcelis Technologies, Inc. (“Axcelis”), a U.S. corporation. The Company designs, manufactures, sells and repairs ion implantation equipment and semiconductor equipment primarily for semiconductor manufacturing customers.

On April 1, 2006, the Company changed its name from “Sumitomo Eaton Nova Corporation” to “SEN Corporation, an SHI and Axcelis Company.”

Basis of Presentation

The Company and its subsidiary maintain their books of account in conformity with the accounting principles generally accepted in Japan. The consolidated financial statements of the Company and its subsidiary presented herein have been prepared in a manner and reflect the adjustments which are necessary to conform them with accounting principles generally accepted in the United States of America (“U.S.”).

Principle of Consolidation

The consolidated financial statements include the accounts of the Company and its wholly-owned subsidiary located in Japan. All significant intercompany balances and transactions are eliminated in consolidation.

Use of Estimates

The preparation of consolidated financial statements in conformity with generally accepted accounting principles in the U.S. requires management to make certain estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. The actual results could differ from those estimates.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 1. Nature of Business and Significant Accounting Policies (continued)

Foreign Currency

Transaction gains and losses, which arise from transactions denominated in a currency other than the Japanese yen, are included in non-operating income (expenses). Transaction gains and losses in each of the years in the three year period ended March 31, 2008 were not material.

Cash Equivalents

All highly liquid investments with a maturity of three months or less when purchased are considered to be cash equivalents.

Inventories

Inventories are stated at the lower of cost or market. The cost of raw material inventories is determined on the average cost method. The cost for work in process inventories are determined based on the specific identification method.

Property, Plant and Equipment

Property, plant and equipment is carried at cost less accumulated depreciation. Depreciation is computed using the declining-balance method over the estimated useful lives of the respective assets (buildings — 6 to 40 years; machinery — 5 to 15 years; and furniture, fixtures and automobiles — 2 to 20 years) except for buildings purchased after April 1, 1998, which are depreciated on the straight-line basis over 31 years.

Impairment of Long-Lived Assets

Long-lived assets are reviewed for impairment losses whenever events or changes in circumstances indicate the carrying amount may not be recoverable. Recoverability of assets to be held and used would be considered impaired when the net undiscounted future cash flows generated by the assets are less than their carrying value. An impairment loss would be recognized based on the amount by which the carrying value of the asset exceeds its fair value. Assets to be disposed of by sale are reported at the lower of the carrying amount or fair value less costs to sell, and are no longer depreciated.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 1. Nature of Business and Significant Accounting Policies (continued)

Income Taxes

Deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates are recognized in the period in which they are enacted. The Company records a valuation allowance to reduce the deferred tax assets to the amount that is more likely than not realizable.

The Company adopted the provisions of Financial Accounting Standards Board (“FASB”) Interpretation No. 48, *Accounting for Uncertainty in Income Taxes, an interpretation of FASB Statement No. 109* on April 1, 2007. Upon adoption, the Company recognizes the financial statement effects of tax positions when it is more likely than not, based on the technical merits, that the tax positions will be sustained upon examination by the tax authorities. Benefits from tax positions that meet the more-likely-than-not recognition threshold are measured at the largest amount of benefit that is greater than 50 percent likely of being realized upon settlement. Interest and penalties accrued related to unrecognized tax benefits are included in income taxes in the consolidated statements of income.

Revenue Recognition

In general, the Company recognizes revenue when there is persuasive evidence of an arrangement, delivery has occurred or the services have been rendered, the sales price is fixed or determinable and collection of the related receivable is reasonably assured.

When a sales arrangement involves multiple elements, the items included in the arrangement (deliverables) are evaluated to determine whether they represent separate units of accounting. The arrangement consideration is allocated to the individual items based on their relative fair values. If there is objective and reliable evidence of fair value of the undelivered item in an arrangement, but no such evidence for the delivered item, the residual method is used to allocate the arrangement consideration.

Absent objective and reliable evidence of fair value for the undelivered item in a multiple-element arrangement, the Company combines all deliverables into a single unit of accounting, and recognizes revenue when the last item has been delivered and all revenue recognition criteria applicable to the last delivered item has been met.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 1. Nature of Business and Significant Accounting Policies (continued)

Revenue Recognition (continued)

For domestic equipment sales that require installation services, the Company recognizes revenue upon customers’ acceptance. For export equipment sales, revenue is recognized when title and risk of loss transfers to the customer, generally upon shipment. When the final payment is subject to customer acceptance, a portion of revenue for the final payment is deferred until an enforceable claim has become effective.

Service revenue includes revenue from spare parts, maintenance services and equipment overhaul services. Revenue related to maintenance service contracts is recognized ratably over the duration of the contracts. Revenue related to services and equipment overhauls is recognized upon completion and acceptance of the service. Revenue related to services and equipment overhauls is recognized upon the later of shipment or when title and risk of loss passes to the customer.

Taxes collected from customers and remitted to governmental authorities are excluded from revenues in the consolidated statements of income.

Shipping and Handling Costs

Shipping and handling costs are included in cost of products sold.

Research and Development Costs

Research and development costs are expensed in the year in which such costs are incurred.

Reclassifications

Certain prior year amounts have been reclassified to conform to the current year presentation.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 1. Nature of Business and Significant Accounting Policies (continued)

Recent Accounting Pronouncements

In September 2006, the FASB issued Statement of Financial Accounting Standard (“SFAS”) No. 157, *Fair Value Measurements* (“SFAS 157”). SFAS 157 defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements. SFAS 157 is effective for fiscal

years beginning after November 15, 2007 and is required to be adopted by the Company in the fiscal year beginning after April 1, 2008. In February 2008, the FASB issued Staff Positions No. FAS 157-1, *Application of FASB Statement No. 157 to FASB Statement No. 13 and Other Accounting Pronouncements That Address Fair Value Measurements for Purposes of Lease Classification or Measurement under Statement 13* and No. FAS 157-2, *Effective Date of FASB Statement No. 157*, which partially delay the effective date of SFAS 157 for one year for certain nonfinancial assets and liabilities and remove certain leasing transactions from its scope. The adoption of SFAS 157 will not have a material impact on the Company's consolidated results of operations and financial condition.

In September 2006, the Financial Accounting Standards Board ("FASB") issued Statement of Financial Accounting Standard No. 158, *Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans-An Amendment of FASB Statements No. 87, 88, 106, and 132R* ("SFAS 158"). SFAS 158 requires an employer to recognize the funded status of pension and other postretirement benefit plans on sponsoring employers' balance sheets and to recognize changes in the funded status in comprehensive income in the year the changes occur. It also requires the measurement date of plan assets and obligations to be at the end of the employers' fiscal year. The Company adopted the requirement to recognize the funded status of its benefit plan and the disclosure requirements in its financial statements as of and for the year ending March 31, 2008, as described in Note 10 Employees' and Directors' Retirement Benefits. However, the requirement to measure plan assets and benefit obligations as of the date of the employer's fiscal year-end consolidated balance sheet shall be effective for the Company's fiscal year ending March 31, 2009. Adoption of the measurement date provisions of SFAS 158 will require the Company to record adjustments to retained earnings and accumulated other comprehensive income for the effect of net periodic benefit costs incurred in the period January 1, 2008 to March 31, 2008. The Company is currently evaluating whether to re-measure plan assets and benefit obligations as of March 31, 2008 to determine the effects of the measurement date change at March 31, 2008 (re-measurement method) or to continue to use the measurements as of December 31, 2007 and report the estimated effects of the measurement date change by allocating three-fifteenths of the net periodic benefit cost determined for the period from December 31, 2007 to March 31, 2009 (alternative method). As a result, the impact of applying the measurement date provisions has yet to be determined.

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SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 2. Basis of Financial Statement Translation

The accompanying consolidated financial statements expressed in yen, solely for the convenience of the reader, have been translated into United States dollars at the rate of ¥100.19 per US\$ 1, the approximate exchange rate prevailing on the Tokyo Foreign Exchange Market as of March 31, 2008. This translation should not be construed as a representation that all amounts shown could be converted into U.S. dollars.

Note 3. Trade Receivables

The components of trade receivables at March 31, 2007 and 2008 were as follows:

	2007	2008	2008
	(Thousands of yen)		(U.S. dollars in thousands)
Notes	¥ 284,277	¥ 188,038	\$ 1,877
Accounts	22,293,689	9,739,973	97,215
	22,577,966	9,928,011	99,092
Allowance for doubtful accounts	(25,481)	—	—
	¥ 22,552,485	¥ 9,928,011	\$ 99,092

Note 4. Inventories

The components of inventories at March 31, 2007 and 2008 were as follows:

	2007	2008	2008
	(Thousands of yen)		(U.S. dollars in thousands)
Work in process	¥ 5,755,442	¥ 6,301,577	\$ 62,896
Raw materials and parts	2,430,932	2,331,915	23,275
	¥ 8,186,374	¥ 8,633,492	\$ 86,171

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SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 5. Property, Plant and Equipment

The components of property, plant and equipment at March 31, 2007 and 2008 were as follows:

	2007	2008	2008
	(Thousands of yen)		(U.S. dollars in thousands)
Land	¥ 299,485	¥ 299,485	\$ 2,989
Building and land improvements	4,611,371	4,632,692	46,239
Machinery	932,455	945,379	9,436

Furniture, fixtures and automobiles	2,158,992	2,166,912	21,628
Construction in process	11,278	11,510	115
	8,013,581	8,055,978	80,407
Accumulated depreciation	(5,371,065)	(5,714,779)	(57,039)
	<u>¥ 2,642,516</u>	<u>¥ 2,341,199</u>	<u>\$ 23,368</u>

Note 6. Product Warranty

The Company offers a one year warranty for all its products, the terms and conditions of which vary depending upon the product sold. The Company estimates the costs that may be incurred under its warranty and records a liability in the amount of such costs at the time product revenue is recognized.

Factors that affect the Company's warranty 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 warranty and adjusts the amount as necessary.

Changes in the Company's product warranty (included in other current liabilities on the consolidated balance sheets) for the years ended March 31, 2006, 2007 and 2008 are as follows:

	2006	2007	2008	2008
		(Thousands of yen)		(U.S. dollars in thousands)
Balance at April 1 (beginning of year)	¥ 54,900	¥ 39,200	¥ 51,000	\$ 509
Warranties issued during the period	49,896	93,464	66,276	661
Settlements made during the period	(65,596)	(81,664)	(87,476)	(873)
Balance at March 31 (end of year)	<u>¥ 39,200</u>	<u>¥ 51,000</u>	<u>¥ 29,800</u>	<u>\$ 297</u>

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SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 7. Transactions with Affiliates

Transactions with affiliates for the years ended March 31, 2006, 2007 and 2008 were as follows:

	2006	2007	2008	2008
		(Thousands of yen)		(U.S. dollars in thousands)
Revenues:				
SHI and affiliates	¥ —	¥ 2,400	¥ —	\$ —
Axcelis and affiliates	375,464	512,490	343,824	3,432
	<u>¥ 375,464</u>	<u>¥ 514,890</u>	<u>¥ 343,824</u>	<u>\$ 3,432</u>
Inventories purchased:				
SHI and affiliates	¥ 1,923,477	¥ 2,074,908	¥ 1,386,874	\$ 13,842
Axcelis and affiliates	281,357	461,452	205,217	2,049
	<u>¥ 2,204,834</u>	<u>¥ 2,536,360</u>	<u>¥ 1,592,091</u>	<u>\$ 15,891</u>
Other income from affiliates, none of which have been eliminated:				
Territory commission and sales assistance fees from Axcelis	¥ —	¥ 8,185	¥ —	\$ —
	<u>¥ —</u>	<u>¥ 8,185</u>	<u>¥ —</u>	<u>\$ —</u>
Other expenses to affiliates, none of which have been eliminated:				
Royalties to Axcelis	¥ 706,531	¥ 715,136	¥ 454,849	\$ 4,540
Commissions to Axcelis and affiliates	218,390	327,039	126,449	1,262
Other expenses to Axcelis and affiliates	390	1,394	1,475	15
Management fees and royalties to SHI	164,301	174,295	112,591	1,124
Subcontract charges to SHI affiliates	3,594	4,977	4,344	43
Other expenses to SHI and affiliates	229,028	196,587	182,301	1,819
	<u>¥ 1,322,234</u>	<u>¥ 1,419,428</u>	<u>¥ 882,009</u>	<u>\$ 8,803</u>

The sales and purchase transactions with SHI, Axcelis, and their affiliates have been conducted at cost plus a fixed rate of 12%-25%.

The royalties to Axcelis were charged to the Company at 3.5% - 5.5% of net sales. The sales commissions to Axcelis were charged to the Company at 10% of net sales. The rates for both royalty and sales commission are specified in the master license agreement entered into between the Company and Axcelis.

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SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 7. Transactions with Affiliates (continued)

The management fees and royalties to SHI were charged to the Company at 1% of net sales, which is specified in the management fee agreement.

The Company earned profits of ¥58,617 thousand, ¥80,009 thousand, and ¥53,677 thousand (US\$ 535 thousand) in 2006, 2007 and 2008, respectively, on revenue recognized from sales to Axcelis and affiliates, none of which have been eliminated in consolidation.

Balances due from and to affiliates at March 31, 2007 and 2008 were as follows:

	2007		2008	
	(Thousands of yen)		(U.S. dollars in thousands)	
Due from affiliates:				
SHI and affiliates	¥	1,456	¥	7,675
Axcelis and affiliates		60,575		97,130
	¥	<u>62,031</u>	¥	<u>104,805</u>
Due to affiliates:				
SHI and affiliates	¥	1,403,727	¥	601,265
Axcelis and affiliates		527,713		278,662
	¥	<u>1,931,440</u>	¥	<u>879,927</u>
			\$	<u>1,046</u>
				<u>8,783</u>

Pension funding for seconded employees (employees on temporary assignment) is provided through a plan administered by SHI. Under this arrangement, the Company is billed monthly for the pension costs attributable to those individuals. Under the terms of the pension agreement with SHI, no additional costs related to earned benefits are to be borne by the Company. Pension contributions paid to SHI for the years ended March 31, 2006, 2007 and 2008 were ¥126,977 thousand, ¥91,026 thousand and ¥78,236 thousand (US\$ 781 thousand), respectively.

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SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 8. Leases

Rental expenses for equipment, land and office space for the years ended March 31, 2006, 2007 and 2008 amounted to ¥266,976 thousand, ¥257,467 thousand and ¥253,515 thousand (US\$ 2,530 thousand), respectively. Future minimum non-cancelable rental commitments at March 31, 2008 under operating leases are as follows:

Year ended March 31	(Thousands of yen)	(U.S. dollars in thousands)
2009	¥ 140,414	\$ 1,401
2010	59,176	591
2011	54,292	542
2012	49,504	494
2013	45,022	449
Thereafter	539,510	5,385
	¥ <u>887,918</u>	\$ <u>8,862</u>

Note 9. Income Taxes

Income taxes include corporation, enterprise, and inhabitants' taxes which, in the aggregate, resulted in a statutory tax rate of approximately 40.44% in 2006, 2007 and 2008. The difference between the provision for income tax and the amount computed by applying the statutory income tax rate in effect for the year ended March 31, 2006, 2007 and 2008 resulted from nondeductible expenses, tax credits for costs of information technologies, research and development activities, and other miscellaneous items. The 2008 provision for income taxes also includes a credit related to the true up of 2007 income taxes.

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SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 9. Income Taxes (continued)

Deferred income taxes reflect the net tax effect of the temporary differences between the amounts of the assets and liabilities recorded for financial reporting and income tax purposes. Significant components of the Company's deferred tax assets as of March 31, 2007 and 2008 were as follows:

	2007		2008	
	(Thousands of yen)		(U.S. dollars in thousands)	
Deferred tax assets:				
Accrued enterprise tax	¥	183,806	¥	26,469
Bonus payment reserve		194,939		185,799
			\$	264
				1,854

Inventory valuation	1,359	138,766	1,385
Deferred revenue	—	57,471	574
Property, plant and equipment	285,742	302,482	3,019
Accrued pension and severance cost	8,980	98,567	984
Other	45,793	73,760	736
Total gross deferred tax assets	¥ 720,619	¥ 883,314	8,816

Deferred tax liabilities:

Pension asset	¥ (18,407)	¥ (26,468)	\$ (264)
Total gross deferred tax liabilities	(18,407)	(26,468)	(264)
Net deferred tax asset	¥ 702,212	¥ 856,846	\$ 8,552

Realization of the Company's net deferred tax assets is dependent on the Company generating sufficient taxable income or the Company executing certain available tax strategies. Although realization is not assured, management believes it is more likely than not that the net deferred tax assets will be realized.

The Company files income tax returns in Japan. The Company is subject to regular income tax examinations by tax authorities. Japanese tax authorities have completed examinations of the Company through the year ended March 31, 2003. Fiscal years subsequent to 2003 are open and subject to tax examination. The Company believes that it has appropriate support for income tax positions taken on its returns based on an assessment of many factors including past experience and interpretations of tax law.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 10. Employees' and Directors' Retirement Benefits

The Company has a defined benefit pension plan that covers substantially all employees, except for the seconded employees described in Note 7. Benefits under the plan are based on the employees' compensation as of the date of retirement and years of service. The Company's policy is to fund amounts which are actuarially determined to provide the plan with sufficient assets to meet future benefit payment requirements. Assets of the plan are invested in equity securities, debt securities, money market instruments, and insured products. The measurement date used to calculate the pension obligation for the benefit plan is December 31.

In September 2006, FASB issued SFAS No. 158, *Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans—An Amendment of FASB Statements No. 87, 88, 106, and 132R* ("SFAS 158"). SFAS 158 requires an employer to recognize the funded status of pension and other postretirement benefit plans on sponsoring employers' balance sheets and to recognize changes in the funded status in comprehensive income in the year the changes occur. It also requires the measurement date of plan assets and obligations to be as of the date of the Company's year-end, March 31. The Company adopted the requirement to recognize the funded status of its benefit plan and the disclosure requirements in its financial statement as of and for the year ending March 31, 2008. Pursuant to the adoption of those requirements, the net after-tax adjustment to accumulated other comprehensive loss at March 31, 2008 was ¥132,626 thousand, which principally represents the impact of recognizing previously unrecognized actuarial losses and transition obligation. The incremental effects of adopting the provisions of SFAS 158 on the accompanying consolidated balance sheet at March 31, 2008 are presented in the following table.

	(Thousands of yen)		
	Before Application of SFAS 158	Adjustments	After Application of SFAS 158
Other assets	¥ 44,390	¥ (44,390)	¥ —
Accrued retirement liabilities	—	(178,286)	(178,286)
Deferred tax liabilities	(17,951)	17,951	—
Deferred tax assets	—	72,099	72,099
Accumulated other comprehensive loss	—	132,626	132,626

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 10. Employees' and Directors' Retirement Benefits (continued)

	(U.S. dollars in thousands)		
	Before Application of SFAS 158	Adjustments	After Application of SFAS 158
Other assets	\$ 443	\$ (443)	\$ —
Accrued retirement liabilities	—	(1,779)	(1,779)
Deferred tax liabilities	(179)	179	—
Deferred tax assets	—	720	720
Accumulated other comprehensive loss	—	1,323	1,323

Benefit obligation, plan assets, the funded status and amounts recognized as of and for the years ended March 31, 2007 and 2008 (measured at December 31, 2006 and 2007) are as follows:

	2007	2008	2008
	(Thousands of yen)		(U.S. dollars in thousands)
Benefit obligation at end of year	¥ 1,085,430	¥ 1,197,170	\$ 11,949
Fair value of plan assets at end of year	959,778	1,018,884	10,170
Funded status	¥ (125,652)	¥ (178,286)	\$ (1,779)
Contributions	¥ 128,785	¥ 104,915	\$ 1,047
Benefits paid	(7,954)	(7,052)	(70)

Upon adoption of the recognition provision of SFAS 158, the Company recognized an accumulated other comprehensive income adjustment, after income taxes, consisting of a net actuarial loss and transition obligation of ¥119,797 thousand (US\$ 1,196 thousand) and ¥ 12,829 thousand (US\$ 127 thousand), respectively.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 10. Employees' and Directors' Retirement Benefits (continued)

The estimated net actuarial loss and net transition obligation that will be amortized from accumulated other comprehensive income into net periodic benefit cost over the year ended March 31, 2009 are summarized as follows:

	(Thousands of yen)	(U.S. dollars in thousands)
Net actuarial loss	¥ 3,797	\$ 38
Net transition obligation	10,770	107
Accrued retirement liabilities	¥ 14,567	\$ 145

The aggregate accumulated benefit obligation of this plan as of March 31 (measured at December 31) was as follows:

	2007	2008	2008
	(Thousands of yen)		(U.S. dollars in thousands)
Aggregate accumulated benefit obligation	¥ 768,665	¥ 865,919	\$ 8,643

The discount rates and weighted average rates of increases in future salary levels used in determining the actuarial present value of the projected benefit obligation as of March 31, 2007 and 2008 (measured at December 31, 2006 and 2007) were as follows:

	2007	2008
Discount rate	2.0%	2.0%
Weighted average rates of increases in future salary levels	3.4%	3.5%

The discount rates, weighted average rates of increases in future salary levels and the expected long-term rates of return on plan assets used in determining net pension expense for the years ended March 31, 2006, 2007 and 2008 (measured at December 31, 2005, 2006 and 2007) were as follows:

	2006	2007	2008
Discount rate	1.5%	2.0%	2.0%
Weighted average rates of increases in future salary levels	2.7%	3.4%	3.4%
Expected long-term rates of return on plan assets	4.0%	4.0%	4.0%

The expected long-term rate of return on plan assets assumption is determined from the plan's asset allocation using forward-looking assumptions in the context of historical returns.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 10. Employees' and Directors' Retirement Benefits (continued)

The following benefit payments, which reflect expected future service, as appropriate, are expected to be paid:

Year ended March 31	(Thousands of yen)	(U.S. dollars in thousands)
2009	¥ 4,712	\$ 47
2010	5,377	54
2011	6,672	67

2012	13,666	136
2013	41,605	415
2014 – 2018	245,822	2,454

The Company's investment strategy is to manage the assets of the plan to meet its long-term obligations while maintaining sufficient liquidity to pay current benefits. This is primarily achieved by holding equity-like investments while investing a portion of the assets in long duration bonds in order to match the long-term nature of the liabilities. The Company will periodically undertake an asset and liability modeling study if a material shift in the plan's liability profile or changes in the capital markets call for such a study. The Company's weighted-average asset allocations for its defined benefit plan at March 31, 2007 and 2008, by asset category, are as follows:

Asset Category	2007	2008
Equity securities	34.4%	39.0%
Debt securities	28.2	24.0
Foreign currency securities investment fund	30.6	33.7
Loan receivables	6.8	3.3
	<u>100.0%</u>	<u>100.0%</u>

The Company expects to contribute ¥113,138 thousand (US\$ 1,129 thousand) to its defined benefit plan for the year ending March 31, 2009.

The Company previously had provided certain defined benefits to its statutory auditors and directors who were not statutory auditors, directors or employees of SHI, Axcelis or one of their affiliates. Such benefits were based on years of service, compensation at retirement and position. This plan was unfunded. In July 2005, the company terminated this plan. The benefit relating to the service period through July 2005 will be paid when the director or statutory auditor terminates employment. The Company has accrued ¥21,060 thousand (US\$ 210 thousand) for payment of such benefits.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 11. Shareholders' Equity

The Commercial Code of Japan ("Code") provides that an amount equal to at least 10% of the amount to be disbursed as a distribution of earnings be appropriated to the legal reserve until the total of such reserve and the additional paid-in capital account equals 25% of the common stock account. The Code also provides to the extent that the sum of additional paid-in capital account and the legal reserve account exceed 25% of the common stock account then the amount of the excess (if any) is available for appropriations by resolution of the shareholders.

Retained earnings available for dividends under the Code are based on the amount presented in the Company's non-consolidated financial statements, which are prepared in accordance with accounting principles and practices generally accepted in Japan. Under the Code, the amount of retained earnings available for dividends as of March 31, 2008 amounted to ¥27,220,699 thousand (US\$ 272 million).

Note 12. Financial Instruments

The total carrying amount reported in the balance sheets for financial instruments, cash and cash equivalents, notes and accounts receivables, notes and accounts payables approximates their respective fair value.

Note 13. Supplemental Balance Sheet Information

Changes in allowance for doubtful accounts:

	2006	2007	2008	2008
	(Thousands of yen)			(U.S. dollars in thousands)
Balance at April 1	¥ 18,260	¥ 18,535	¥ 25,481	\$ 254
Addition	275	6,946	—	—
Deduction	—	—	(25,481)	(254)
Balance at March 31	<u>¥ 18,535</u>	<u>¥ 25,481</u>	<u>¥ —</u>	<u>\$ —</u>

Note 14. Sales to Foreign Customers

The Company's sales to foreign customers amounted to ¥3,407,516 thousand, ¥5,060,620 thousand and ¥2,111,803 thousand (US\$ 21,078 thousand) for the years ended March 31, 2006, 2007 and 2008, respectively.

SEN Corporation, an SHI and Axcelis Company

Notes to Consolidated Financial Statements (continued)

Note 15. Concentration of Credit Risk

Financial instruments, which potentially expose the Company to concentrations of credit risk, consist primarily of trade notes and accounts receivable. Substantially all of the Company's notes and accounts receivable are due from companies in the semiconductor industry located in Japan. The Company performs ongoing credit evaluations of its customers' financial condition and provides an allowance for specific doubtful trade notes and accounts receivable and generally does not require collateral to secure the trade notes and accounts receivable.

For the year ended March 31, 2006, three customers accounted for net sales of 19%, 14% and 13%. Three customers accounted for net sales of 22%, 13% and 13% for the year ended March 31, 2007. For the year ended March 31, 2008, three customers accounted for net sales of 26%, 14%, and 9%, respectively.

At March 31, 2007 and 2008 accounts receivable from one customer accounted for approximated 26% and 29% of total consolidated trade receivables, respectively.

Note 16. Contingencies

Axcelis, one of the Company's shareholders, filed for arbitration to the Japan Commercial Arbitration Association on September 8, 2006, seeking, among others, royalty payments from the Company for the sale of the Company's single-wafer high-current ion implanter SHX ("SHX"). The Company disputes the entirety of Axcelis' claims, arguing that SHX is a product which was wholly developed by SEN based on its own technologies, and there is no reason for the Company to pay any royalties to Axcelis on the sales of SHX products. In addition, the Company filed counter claims against Axcelis on October 30, 2006, seeking, among others, a remedy for damages, the refund of royalties paid to Axcelis and a permanent injunction prohibiting Axcelis from infringing the Company's U.S. and Japanese patents. The arbitration is scheduled in the first half of 2010. Management believes the ultimate resolution of this matter will not have a material adverse effect on the Company's financial position, results of operations or cash flows.

Note 17 Subsequent Events (Unaudited)

On March 30, 2009, pursuant to the Share Purchase Agreement dated February 26, 2009, Axcelis sold to SHI all of Axcelis' common shares in the Company for the payment of JPY 13 billion (inclusive of the license fee referenced below). On April 01, 2009, the Company changed its name to SEN Corporation.

In connection with the sale of its investment in the Company, on March 30, 2009, the Company and Axcelis entered into the License Agreement pursuant to which the parties have cross licensed to each other the rights to use certain patents and technical information on a non-exclusive, perpetual, royalty-free, worldwide basis. In addition to the above license the Company and Axcelis received sole exclusive licenses (subject to certain exceptions) for 4 years in the U.S. and Japan, respectively. In accordance with this license agreement, the Company has paid a one time license fee of JPY 1,685 million.

Arbitration over various issues, disclosed in Note 16 above, was terminated in accordance with the joint dismissal document submitted by the Company and Axcelis on March 30, 2009 pursuant to a settlement agreement on the same date.

SIGNATURE

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

AXCELIS TECHNOLOGIES, INC.

By: /s/ Mary G. Puma

Mary G. Puma,
Chairman of the Board, Chief Executive Officer
and President

DATED: June 26, 2009

Exhibit Index

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 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.
4.1	Specimen Stock Certificate. Incorporated by reference to Exhibit 4.1 of the Company's Registration Statement on Form S-1 (Registration No. 333-36330).
4.2	Rights Agreement between the Company and EquiServe Trust Company, N.A. Incorporated by reference to Exhibit 4.1 of the Company's Registration Statement on Form S-1 (Registration No. 333-36330).
4.3	Indenture between the Company and U.S. Bank National Association, as trustee, including the form of note, dated as of May 2, 2006. Incorporated by reference to Exhibit 4.12 of the Company's Report on Form 8-K filed with the Commission on May 4, 2006.
10.1*	Axcelis Technologies, Inc. 2000 Stock Plan, as amended through June 23, 2005. Incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the Commission on June 28, 2005.

- 10.2* Axcelis Team Incentive Plan for executive officers, adopted by the Compensation Committee of the Board of Directors on January 20, 2005. Incorporated by reference to Exhibit 10.1 to the Company's Report on Form 8-K filed with the Commission on January 31, 2005.
- 10.3 Form of Indemnification Agreement entered into by the Company with each of its directors and executive officers. Incorporated by reference to Exhibit 10.2 of the Company's Registration Statement on Form S-1 (Registration No. 333-36330).
- 10.4* Form of Change in Control Agreement, as approved by the Board of Directors on October 16, 2007 and first effective on November 6, 2007, between the Company and each of its executive officers. Incorporated by reference to Exhibit 10.4 of the Company's report on Form 10-Q for the quarter ended September 30, 2007 filed with the Commission on November 8, 2007.
- 10.5* Form of Employee non-qualified stock option grant under the 2000 Stock Plan, updated as of April 5, 2002. Incorporated by reference to Exhibit 10.1 of the Company's report on Form 10-Q filed with the Commission on November 9, 2004.
- 10.6* Form of Non-Employee Director stock non-qualified stock option grant under the 2000 Stock Plan, updated as of July 12, 2004. Incorporated by reference to Exhibit 10.2 of the Company's report on Form 10-Q filed with the Commission on November 9, 2004.
- 10.7* Form of Restricted Stock Agreement for use under the 2000 Stock Plan. Incorporated by reference to Exhibit 10.4 to the Company's Current Report on Form 8-K filed with the Commission on June 28, 2005.
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- 10.8* Form of Restricted Stock Unit Award Agreement for use under the 2000 Stock Plan. Incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed with the Commission on June 28, 2005.
- 10.9* Named Executive Officer Base Compensation at March 1, 2009. Filed with the Original Form 10-K on March 31, 2009.
- 10.10* Non-Employee Director Cash Compensation at March 1, 2009. Filed with the Original Form 10-K on March 31, 2009.
- 10.11* Amended and Restated Employment Agreement between the Company and Mary G. Puma dated November 6, 2007. Incorporated by reference to Exhibit 10.3 of the Company's report on Form 10-Q for the quarter ended September 30, 2007 filed with the Commission on November 8, 2007.
- 10.12 Loan and Security Agreement dated as of April 23, 2008 between the Company and Silicon Valley Bank. Incorporated by reference to Exhibit 10.1 to the Company's report on Form 10-Q for the quarter ended March 31, 2008 filed with the Commission on May 12, 2008.
- 10.13 Share Purchase Agreement dated February 26, 2009 among the Company, Sumitomo Heavy Industries, Ltd. And SEN Corporation, and SHI and Axcelis Company. Incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the Commission on February 27, 2008.
- 10.14 Letter to the Company dated February 25, 2009 from U.S. Bank National Association, as trustee under the Indenture dated as of May 2, 2006 relating to Axcelis' 4.25% Convertible Senior Subordinated Notes. Incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the Commission on February 27, 2008.
- 10.15 License Agreement dated as of March 30, 2009 between the Company and SEN Corporation, an SHI and Axcelis Company. Incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the Commission on April 3, 2009.
- 10.16* Letter from Mary G. Puma to the Board of Directors dated May 1, 2009. Incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the Commission on May 11, 2009.
- 14.1 Ethical Business Conduct at Axcelis, revised through January 2003. Incorporated by reference to Exhibit 14.1 of the Company's report on Form 10-K filed with the Commission on March 28, 2003.
- 21.1 Subsidiaries of the Company. Incorporated by reference to the Original Form 10-K on March 31, 2009.
- 23.1 Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm relating to the financial statements of Axcelis Technologies, Inc. Filed with the Original Form 10-K on March 31, 2009.
- 23.2 Consent of Ernst & Young ShinNihon LLC, Independent Auditors, relating to the financial statements of SEN Corporation, an SHI and Axcelis Company. Filed herewith.
- 31.1 Certification of the Chief Executive Officer under Exchange Act Rule 13a-14(a)/15d-14(a) (Section 302 of the Sarbanes-Oxley Act), dated June 29, 2009. Filed herewith.
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- 31.2 Certification of the Chief Financial Officer under Exchange Act Rule 13a-14(a)/15d-14(a) (Section 302 of the Sarbanes-Oxley Act), dated June 29, 2009. Filed herewith.
- 32.1 Certification of the Chief 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 June 29, 2009. Filed herewith.
- 32.2 Certification of the Chief 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 June 29, 2009. Filed herewith.

* Indicates a management contract or compensatory plan.

** Certain confidential information contained in the document has been omitted and filed separately with the Securities and Exchange Commission pursuant to Rule 406 of the Securities Act of 1933, as amended, or Rule 24b-2 promulgated under the Securities and Exchange Act of 1934, as amended.

Consent of Independent Auditors

We consent to the incorporation by reference in the following Registration Statements:

- (1) Registration Statement (Form S-3 No. 333-134920) of Axcelis Technologies, Inc.;
- (2) Registration Statement (Form S-8 No. 333-49726) pertaining to the Employee Stock Purchase Plan of Axcelis Technologies, Inc.;
- (3) Registration Statement (Form S-8 No. 333-49768) pertaining to the 2000 Stock Plan of Axcelis Technologies, Inc.; and
- (4) Registration Statement (Form S-8 No. 333-120356) pertaining to the 2000 Stock Plan of Axcelis Technologies, Inc.

of our report dated September 19, 2008, with respect to the consolidated financial statements of SEN Corporation, an SHI and Axcelis Company, for the year ended March 31, 2008, incorporated herein by reference, included in this amended Annual Report (Form 10-K/A) of Axcelis Technologies, Inc. for the year ended December 31, 2008.

/s/ Ernst & Young ShinNihon LLC

Tokyo, Japan
June 29, 2009

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 annual report on Form 10-K/A 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 company as of, and for, the periods presented in this report;

Date: June 29, 2009

/s/ Mary G. Puma

Mary G. Puma,
Chairman of the Board, Chief Executive Officer and
President

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 annual report on Form 10-K/A 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 company as of, and for, the periods presented in this report;

Date: June 29, 2009

/s/ Stephen G. Bassett

Stephen G. Bassett,

Executive Vice President and Chief Financial Officer

AXCELIS TECHNOLOGIES, INC.

Certification of the Chief 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-K/A annual 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 June 29, 2009.

/s/ Mary G. Puma

Mary G. Puma

Chairman of the Board, Chief Executive Officer and President

AXCELIS TECHNOLOGIES, INC.

Certification of the Chief 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-K/A annual 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 June 29, 2009.

/s/ Stephen G. Bassett

Stephen G. Bassett

Executive Vice President and Chief Financial Officer
