

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 8-K  
CURRENT REPORT  
Pursuant to Section 13 or 15(d)  
of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): December 3, 2019

**Axcelis Technologies, Inc.**  
(Exact name of registrant as specified in its charter)

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

**000-30941**  
(Commission  
File Number)

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

**108 Cherry Hill Drive, Beverly, Massachusetts**  
(Address of principal executive offices)

**01915**  
(Zip Code)

Registrant's telephone number, including area code: **(978) 787-4000**

(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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

Title of each class	Trading symbol(s)	Name of each exchange on which registered
Common Stock, \$0.001 par value	ACLS	Nasdaq Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter). Emerging growth company

If an emerging growth company, indicate by check mark if registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

**Item 8.01 Other Events.**

On December 3, 2019, Axcelis Technologies, Inc. (the “Company”) issued a press release regarding its stock repurchase program. The Company’s press release is attached as Exhibit 99.1 to this Current Report on Form 8-K and incorporated by reference herein.

**Item 9.01. Financial Statements and Exhibits**

(d) Exhibits

<b>Exhibit No.</b>	<b>Description</b>
<a href="#">99.1</a>	<a href="#">Press Release dated December 3, 2019. Filed herewith.</a>

**SIGNATURE**

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 hereunto duly authorized.

Date: December 3, 2019

Axcelis Technologies, Inc.

By: /s/ Lynnette C. Fallon

Lynnette C. Fallon

Executive Vice President HR/Legal and General Counsel

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**Axcelis Announces Expansion and Extension of Share Repurchase Program**

BEVERLY, Mass., Dec. 3, 2019 /PRNewswire/ -- [Axcelis Technologies, Inc.](#) (Nasdaq: ACLS), a leading supplier of enabling ion implantation solutions for the semiconductor industry, today announced that its Board of Directors has increased its stock repurchase authorization to \$50 million, expanding and extending the \$35 million share repurchase authorization granted in December 2018. Execution is planned through 2020. The purchases are funded from available working capital.

"The increase in our stock repurchase program emphasizes the confidence that management and the board of directors have in Axcelis' operational strength and prospects for the future," said Mary G. Puma, president and chief executive officer. "We will continue to execute on our plans to drive shareholder value through share repurchases over time as a complement to the investments we are making to realize our long-term growth opportunities."

Repurchases of the Company's common stock will be made from time to time under the SEC's Rule 10b-18, subject to market conditions. These shares may be purchased in the open market or through privately negotiated transactions. The Company may from time to time enter into Rule 10b5-1 trading plans to facilitate the repurchase of its common stock pursuant to its share repurchase program. The Company has no obligation to repurchase shares under the authorization. The Company may suspend or discontinue the repurchase program at any time.

**Safe Harbor Statement**

Statements made in this press release that are not of known historical fact are forward-looking statements and are subject to the safe harbor provisions created by the Private Securities Litigation Reform Act of 1995. These statements, which include our plans to execute a share repurchase program, are based on management's current expectations and should be viewed with caution. They are subject to various risks and uncertainties that could cause actual results to differ materially from those in the forward-looking statements, including the continuing strength of our financial position and ability to make share repurchases, as well as the other risks and uncertainties that are described in the documents filed or furnished by us with the Securities and Exchange Commission, including specifically the risk factors described in our annual report on Form 10-K for the fiscal year ended December 31, 2018. The Company undertakes no obligation to update the information or statements made in this press release.

**About Axcelis:**

Axcelis (Nasdaq: ACLS), headquartered in Beverly, Mass., has been providing innovative, high-productivity solutions for the semiconductor industry for over 40 years. Axcelis is dedicated to developing enabling process applications through the design, manufacture and complete life cycle support of ion implantation systems, one of the most critical and enabling steps in the IC manufacturing process. Learn more about Axcelis at [www.axcelis.com](http://www.axcelis.com).

**Company Contacts**

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