SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934 (Amendment No. 3)*

Axcelis Technologies, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value (Title of Class of Securities)

The of Class of Securities

054540208 (CUSIP Number)

(----,

December 31, 2017 (Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

□ Rule 13d-1(b)

 \boxtimes Rule 13d-1(c)

□ Rule 13d-1(d)

(Page 1 of 7 Pages)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("<u>Act</u>") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1	NAME OF REPORTING PERSON				
	Senvest Management, LLC				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)				
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0			
	6	SHARED VOTING POWER 1,823,608			
	7	SOLE DISPOSITIVE POWER 0			
	8	SHARED DISPOSITIVE POWER 1,823,608			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,823,608				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.69%				
12	TYPE OF REPORTING PERSON OO, IA				

1	NAME OF REPORTING PERSON				
	Richard Mashaal				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)				
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE OF ORGANIZATION Canada				
	5	SOLE VOTING POWER 0			
NUMBER OF SHARES BENEFICIALLY	6	SHARED VOTING POWER 1,823,608			
OWNED BY EACH REPORTING	7	SOLE DISPOSITIVE POWER 0			
PERSON WITH	8	SHARED DISPOSITIVE POWER 1,823,608			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,823,608				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.69%				
12	TYPE OF REPORTING PERSON IN, HC				

CUSIP No. 05454	540208 13G/A	Page 4 of 7 Pages
Item 1(a).	Name of Issuer.	
	Axcelis Technologies, Inc. (the " <u>Issuer</u> ")	
Item 1(b).	Address of Issuer's Principal Executive Offices.	
	108 Cherry Hill Drive Beverly, Massachusetts 01915	
Item 2(a).	Name of Person Filing.	
	This statement is filed by Senvest Management, LLC and Richard Mashaal.	
	The reported securities are held in the accounts of Senvest Master Fund, LP and Senvest Global the " <u>Investment Vehicles</u> ").	(KY), LP (collectively,
	Senvest Management, LLC may be deemed to beneficially own the securities held by the Investme Senvest Management, LLC's position as investment manager of each of the Investment Vehicle deemed to beneficially own the securities held by the Investment Vehicles by virtue of Mr. managing member of Senvest Management, LLC. None of the foregoing should be construed admission by any Reporting Person as to beneficial ownership of the securities reported herein.	es. Mr. Mashaal may be Mashaal's status as the
Item 2(b).	Address of Principal Business Office.	
	Senvest Management, LLC 540 Madison Avenue, 32 nd Floor New York, New York 10022	
	Richard Mashaal c/o Senvest Management, LLC 540 Madison Avenue, 32 nd Floor New York, New York 10022	
Item 2(c).	Place of Organization.	
	Senvest Management, LLC – Delaware Richard Mashaal – Canada	
Item 2(d).	Title of Class of Securities.	
	Common Stock, \$0.001 par value	
Item 2(e).	CUSIP Number.	
	054540208	

Item 3.	If this Statement is Filed Pursuant to §§ 240.13d-1(b) or 240.13d-2(b), or (c), check whether the Person Filing is a:				
	(a)		Broker or dealer registered under section 15 of the Act (15 U.S.C. 780);		
	(b)		Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);		
	(c)		Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);		
	(d)		Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);		
	(e)		An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);		
	(f)		An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);		
	(g)		A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);		
	(h)		A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C.1813);		
	(i)		A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);		
	(j)		A non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J);		
	(k)		Group, in accordance with §240.13d-1(b)(1)(ii)(K).		
	n-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please e of institution:				
Item 4.	Ownership.				
	The information required by Items $4(a) - (c)$ is set forth in Rows (5) – (11) of the cover page for each Reporting hereto and is incorporated herein by reference for each such Reporting Person. The percentages set forth in this 13G/A are calculated based upon an aggregate of 32,048,000 shares of Common Stock outstanding as of Dec 2017 as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Common Stock outstanding as of Dec 2017 as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Common Stock outstanding as of Dec 2017 as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Common Stock outstanding as of Dec 2017 as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Common Stock outstanding as of Dec 2017 as reported in the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Common Stock outstanding as the securities and Exchange Common Stock				

February 6, 2018.

Item 5. Ownership of Five Percent or Less of a Class.

Not applicable.

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

The Investment Vehicles have the right to receive and the power to direct the receipt of dividends from, and the proceeds from the sale of, the shares of Common Stock. Servest Master Fund, LP has the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, more than 5% of the Common Stock.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not applicable.

Item 8. Identification and Classification of Members of the Group.

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

By signing below each Reporting Person certifies that, to the best of his or its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Date: February 12, 2018

SENVEST MANAGEMENT, LLC

By: <u>/s/ Bobby Trahanas</u> Name: Bobby Trahanas Title: Chief Compliance Officer

<u>/s/ Richard Mashaal</u> RICHARD MASHAAL