FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 205	49
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STATEMENT	<b>OF CHANGES II</b>	N BENEFICIAL	OWNERSHIP

OMB APPROVAL 3235-0287 Estimated average burden hours per response: 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     St Dennis Thomas					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC 1											o of Reportir dicable) tor	ng Per	rson(s) to Is	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 08/30/2021								_		Office below	er (give title v)		Other ( below)	specify
(Street) BEVER		A 0	1915 Zip)		4. If A									6. Indiv Line) X	Form	or Joint/Group Filing (Check Applicable m filed by One Reporting Person m filed by More than One Reporting son			
		Table	I - No	on-Deriva	tive S	Secui	rities	Acc	quirec	l, Dis	sposed of	, or E	Benefic	cially	Own	ed			
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/				·	Execution Date,		,	3. Transaction Code (Instr. 8)  4. Securities Acquired (A Disposed Of (D) (Instr. 3,				4 and 5) Secu Bene		cially I Following	Form (D) o	vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) or (D)	Price		Transa	action(s) . 3 and 4)			(Instr. 4)		
Common Stock 08/30/20				021			S <sup>(1)</sup>		3,500	D	\$ <del>5</del> 0.	50.32 <sup>(2)</sup>		25,936 <sup>(3)</sup>		D			
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any			saction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)  Amount or Number of Title Shares		Der Sec (Ins	rice of ivative urity tr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				

## **Explanation of Responses:**

- 1. This sale of shares was made to cover the tax liability incident to the 2020 vesting of shares on restricted stock units previously granted to the director.
- 2. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$50.27 to \$50.49, inclusive. The reporting person undertakes to provide to Axcelis Technologies, Inc., any security holder of Axcelis Technologies, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
- 3. Of the shares held as of August 30, 2021, 3,497 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

## Remarks:

Lynnette C. Fallon, as attorney 08/30/2021

\*\* Signature of Reporting Person

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.