FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

			or Section So(n) of the investment company Act of 1940						
1. Name and Add	1 0		2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ACLS	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
	00001111	-]]		Director	10% Owner			
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.			3. Date of Earliest Transaction (Month/Day/Year) 05/25/2023		Officer (give title below)	Other (specify below)			
108 CHERRY	HILL DRIVE		4. If Amendment, Date of Original Filed (Month/Day/Year) 05/25/2023	6. Individual or Joint/Group Filing (Check Applicable Line)					
				X	X Form filed by One Reporting Person				
(Street) BEVERLY	MA	01915			Form filed by More th Person	an One Reporting			
(City)	(State)	(Zip)	Rule 10b5-1(c) Transaction Indication						
			Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.						

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		
Common Stock	05/25/2023		S		1,000	D	\$152.21(1)	6,657 ⁽²⁾	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transac Code (In 8)				6. Date Exerc Expiration Da (Month/Day/N	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$152.17 to \$152.25, 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.

2. Of the shares held as of May 25, 2023, 1,282 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

This amendment corrects a typographical error in the number of shares beneficially owned following the sale on May 25, 2023.

<u>Lynnette C. Fallon, as</u>	
attorney in fact for Joseph P.	06/06/2023
<u>Keithley</u>	

** Signature of Reporting Person Date

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.

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