FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	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).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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1. Name ar	2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS									Check	all app Direc	olicable)		erson(s) to I 10% Ov Other (s	vner				
(Last)	3. Date of Earliest Transaction (Month/Day/Year) 05/25/2023									X	belov			below)					
108 CHERRY HILL DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) BEVERLY MA 01915														X Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
(City)	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																		
											tions of Rule 1					truction or wr	itten p	oian that is int	ended to
		Table	I - No	on-Derivat	tive S	ecui	rities	Acc	quired	, Dis	sposed of	f, or E	3enefic	ially	/ Owr	ned			
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Y					Year) Execution		eemed tion Date, h/Day/Year)					es Acquired (A) Of (D) (Instr. 3,			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) o	Price			rted action(s) 3 and 4)			
Common	)23				S		1,881	D	\$152	2.2 <sup>(1)</sup> 36		6,053 <sup>(2)</sup>		D					
		Tab	le II	- Derivativ (e.g., put							osed of, convertib				Owne	ed			
1. Title of Derivative Security (Instr. 3)	ve Conversion Date Execution Date, Transaction or Exercise (Month/Day/Year) if any Code (Instr.				5. Numl of Deriv Secu Acqu (A) o Dispo of (D) (Instrand 5	rative rities iired r osed ) r. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)					ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares						

## Explanation of Responses:

2. Of the shares held as of May 25, 2023, 20,121 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

## Remarks:

Lynnette C. Fallon

05/25/2023

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.

<sup>1.</sup> The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$152.20 to \$152.21, 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.