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(b) of the Investment Company Act of 1940

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						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								Relationship of Reporting Person(s) to Issuer (Check all applicable)					
														X	Direc			10% O	·
(Last)	3. Date of Earliest Transaction (Month/Day/Year)							\dashv	X	Office belov	er (give title v)	ve title Other (sp below)		specify					
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.						06/12/2023								Executive Chairperson					
108 CHERRY HILL DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line)					
(Street)														X Form filed by One Reporting Pe				porting Pers	son
	BEVERLY MA 01915														Form filed by More than One Reporting Person				
(City) (State) (Zip)						Rule 10b5-1(c) Transaction Indication													
							nsaction was r tions of Rule 1					ruction or wr	itten p	olan that is in	tended to				
		Table	I - No	on-Deriva	tive S	ecui	rities	Acc	quired	l, Dis	sposed of	f, or E	Benefic	ially	Owr	ned			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y					Execution Date,								Acquired (A) or (D) (Instr. 3, 4 and		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 (D)	Price			ted action(s) 3 and 4)			
Common	23			S		11,800	D	\$181	.8(1) 263		3,058 ⁽²⁾	D							
Common										5,000				Held by Spouse					
		Tab	le II	- Derivativ							osed of, convertib				Owne	d			
1. Title of Derivative Security (Instr. 3)	le of 2. 3. Transaction 3A. Deemed Execution Date, rity or Exercise (Month/Day/Year) if any			4. Transaction Code (Instr. 8)		5. Number		1	Exer	cisable and	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and		8. Price of Derivative Security (Instr. 5)				10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)	
					Code	v	(A)	(D)			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 \$181.78 to \$182.27, 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 on June 12, 2023, 67,420 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

<u>Lynnette C. Fallon, as</u> attorney in fact for Mary G. 06/12/2023 Puma

** 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.