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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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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

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

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

1. Name and Address of Reporting Person* FALLON LYNNETTE C					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									Check	all app	o of Reportir licable) tor er (give title	ng Per	rson(s) to Is 10% Ov Other (s	vner
(Last)	(Fir	st) (N	Middle))	3. Date of Earliest Transaction (Month/Day/Year) 09/07/2023								X	belov	below) R/Legal				
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)	(St	ate) (Z	Zip)		Rule 10b5-1(c) Transaction						ction Ind	icatio	on						
						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 - N	on-Deriva	tive S	Secui	rities	Ac	quire	d, Di	sposed of	, or E	Benefici	ally	Own	ed			
1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/N				Execution (Year)		ion Date,		3. Transaction Code (Instr. 8) 4. Securities Ad Disposed Of (Di			Acquire (D) (Ins	ed (A) or tr. 3, 4 and	nd 5) Secur Benef Owne		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount	(A) or (D)	Price			action(s) 3 and 4)			(Instr. 4)	
Common Stock 09/07/20)23				S		3,098	D	\$181.3	32 ⁽¹⁾ 31,		1,371 ⁽²⁾		D	
		Tal	ble II								oosed of, convertib				Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year) Execution Date, (if any (Month/Day/Year) (Month/Day/Year) Transaction Code (Instr. 8) Security				5. Number of Expiration Date (Month/Day/Year) 5. Number of Expiration Date (Month/Day/Year) 5. Number of Expiration Date (Month/Day/Year) 7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)					int of rities rlying ative rity (Instr.	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 Exerc	cisable	Expiration Date	Title	Amount or Number of Shares						

2. Of the shares held as of September 7, 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

09/07/2023

** 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.

^{1.} The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$181.31 to \$181.63, 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.