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).

Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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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 (Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS] 3. Date of Earliest Transaction (Month/Day/Year) 01/03/2025								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title other (specify below) EXECUTIVE VP, HR/LEGAL					wner specify L	
(Street) BEVERLY MA 01915 (City) (State) (Zip)					4. If /	4. If Amendment, Date of Original Filed (Month/Day/Year)								ine)						
Table I - Non-Derivat 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/N					ion	on 2A. Deemed Execution Date,			quired, Disposed of, or 3. Transaction Code (Instr. 8) 4. Securities Acqu Disposed Of (D) (Acquir			5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
Common Stock 01/03/20					025	25			Code F ⁽¹⁾	v	Amount 3,083	(A) or (D)	Price \$71.	96 ⁽²⁾	(Instr. 3	ted action(s) 3 and 4) 7,323 ⁽³⁾		D	(Instr. 4)	
Table II 1. Title of Derivative Conversion Security or Exercise (Month/Day/Year) 3. Transaction Date Execution Date if any			(e.g., pu	ative Secur puts, calls, 4. Transaction Code (Instr.		warrants,		ired, Disposed options, convenience options, conven		convertib cisable and ate Year)	7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		8. P Der Sec (Ins	Owned rice of ivative urity tr. 5)	<u> </u>		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

- 1. This forfeiture of shares for tax withholding purposes relates to the vesting on January 3, 2025 of certain restricted stock units granted to the executive in accordance with the Company's Executive Equity Retirement Program. As agreed with the executive, the shares issued to the executive on the vested shares were reduced by a number of shares having a value equal to the executive's tax withholding obligation with respect to the vested shares.
- 2. Represents the closing price of the Company's common stock on January 3, 2025, the date of the tax withholding,
- 3. Of the shares held as of January 3, 2025, after the acceleration of vesting, 4,551 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture

/s/ Lynnette C. Fallon 01/07/2025

** 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.