Instruction 1(b).

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	.C. 20549
---------------	-----------

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

OMB APPROVAL 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

Name and Address of Reporting Person* Quirk Jeanne				2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									(Ch	eck all app X Direct	ationship of Reportir k all applicable) Director Officer (give title		10% Ov	vner	
(Last)	(Fir	rst) (M	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 05/15/2024										below			Other (s below)	specify
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)	(Sta	ate) (Z	Zip)		Rule 10b5-1(c) Transaction Indication Check this box to indicate that a transaction was made pursuant satisfy the affirmative defense conditions of Rule 10b5-1(c). See										uction or writt	ten pla	n that is inter	nded to	
		Table	I - Nor	n-Deriva							posed of					ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				ay/Year) if an		Deemed ecution Date, ny onth/Day/Year)		Transaction Disposed C			es Acquired (A Of (D) (Instr. 3,			Benefic Owned	ies cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
										v	Amount	(A) (D)	or F	Price		ted action(s) 3 and 4)			(Instr. 4)
Common Stock 05/15				05/15/	2024			A		1,162	1	A	\$0 ⁽¹⁾	7,0	7,662(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 Opto Date (Month/Day/Year) Price of Derivative Security 3. Transaction Date Execution Date if any (Month/Day/Year)			on Date,	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		str.	3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct or Indi (I) (Inst	Ownership	Beneficial Ownership ct (Instr. 4)	
				Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amor or Numl of Share	ber						

Explanation of Responses:

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan on May 15, 2024. Assuming completion of the director's current term of service on the Board of Directors, these restricted stock units will vest on May 15, 2025.
- 2. Of the shares held as of May 15, 2024, 2,305 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

/s/ Lynnette C. Fallon, 05/15/2024

** Signature of Reporting Person

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.