FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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	OMB APPROVAL										
ı											
l	OMB Number:	3235-0287									
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	Check this box if no longer subject
\neg	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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Name and Address of Reporting Person* Quirk Jeanne						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS									all app	nship of Reporti applicable) birector		erson(s) to I 10% Ov	
(Last)	3. Date of Earliest Transaction (Month/Day/Year) 05/15/2023										Officer (give title below)		Other (spe 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	X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)					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 satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.										ended to			
		Table	I - No	n-Deriva	tive S	ecur	ities	Acc	uired,	Dis	posed of	, or E	Benefic	ially	Owr	ned			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)					Execution Date,			ate,	3. Transaction Code (Instr. 8) 4. Securities Acquired (Disposed Of (D) (Instr. 5)						cially I	Forn (D) c	n: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) (D)	or Price	Repor Transa					
Common	023			A		1,282	A \$0)0 ⁽¹⁾	¹⁾ 7,400 ⁽²⁾) ⁽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)	tive Conversion Date Execution Date, or Exercise (Month/Day/Year) if any			ition Date,	4. Transaction Code (Instr. 8)		Secu Acqu (A) of Dispo	vative rities nired r osed)	er Expirati (Month/) (Month/) sed 3, 4			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and		Deri	rice of vative urity tr. 5)	rative derivative rity Securities		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
	Code		v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares									

Explanation of Responses:

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of service on the Board of Directors, these restricted stock units will vest on May 15, 2024.
- 2. Of the shares held after this grant on of May 15, 2023, 5,685 shares were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney in fact for Jeanne 05/15/2023

<u>Quirk</u>

** 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.