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 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]									k all app Direc	tor 10% Own		wner	
(Last)	3. Date of Earliest Transaction (Month/Day/Year) 05/16/2022									belov	er (give title v)		Other (below)	specify					
(Street)	CRRY HILL	· 	1915		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indi Line)						
(City)	(Sta		Zip)	Davis	45					D:-			2 4		. 0	1			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					tion 2A. Deemed Execution Date,			uired, Disposed of, or 3. Transaction Code (Instr. 8) 4. Securities Ad Disposed Of (D			es Acqu	uired (A) or 5. Am 4 and Secur Benef Owne		ount of ties cially I Following	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
Common Stock 05/1					/2022				Code	v	Amount 2,689	(A) (D)	_	0.00 ⁽¹⁾	Reported Transaction(s) (Instr. 3 and 4) 0(1) 6.118(2)			D	(Instr. 4)
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 or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date,		4. Transaction Code (Instr. 8)		of Deriv	r osed) r. 3, 4	Expiration Da		ite	Amount of		De Se (In	Price of rivative curity str. 5)	9. Number derivative Securities Beneficial! Owned Following Reported Transactio (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4		Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Numb of Share						

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 16, 2023.
- 2. Of the shares held after this grant on of May 16, 2022, 6,118 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 05/16/2022 in fact for Jeanne Quirk

** 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.