FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

	Check this box if no longer subject
$\overline{}$	to Section 16. Form 4 or Form 5
\cup	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

1. Name a	2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS										k all app	olicable)	ing Person(s) to 10% C						
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 06/07/2023									Officer (give title below)			Other (speci below)	
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.													
		Table	I - No	n-Deriva	tive S	ecur	ities	Acq	uired, I	Disp	osed of	, or E	Benefi	iciall	y Owr	ned			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					Execution Date,			Date,	3. Transaction Code (Instr. 8) 4. Securities Acquired Disposed Of (D) (Instrand 5)						cially 1	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amount	(A) (D)		ice	Report Transa			,			
Common	2023				S		1,000	0 D :		173	4,657 ⁽¹⁾			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)	ve Conversion Date Execution Date, Ti or Exercise (Month/Day/Year) if any C				Transaction Number Code (Instr. of			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4		8. Price Derivati Security (Instr. 5)		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownersh Form: y Direct (D or Indire (I) (Instr.	Ownership	Beneficial Ownership t (Instr. 4)	
					Code V		(A)	(D)			Expiration Date	Title	Amount or Number of Shares	er					

Explanation of Responses:

1. Of the shares held as of June 7, 2023, 1,282 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

<u>Lynnette C. Fallon, as</u> <u>attorney in fact for Joseph P.</u> 06/07/2023 <u>Keithley</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.