FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	OMB APPROVAL									
	OMB Number:	3235-0287								
I	Estimated average burden									
١	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 ]										all app Direc	olicable)	ing Person(s) to 10% (						
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 06/07/2023									below)  Executive VP,			below)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
108 CHI	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)	Rule	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 - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Transactic Date (Month/Day/					Year) i	eemed ution Date, :h/Day/Year)		3. Transaction Code (Instr. 8)  4. Securities Acquired Disposed Of (D) (Instr 5)					5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(A) (D)	Price			rted saction(s) . 3 and 4)				
Common Stock 06/07/20						023			S		1,584	D	\$172	2.73 34,		<b>1</b> ,469 <sup>(1)</sup>		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)	ative Conversion Date Execution Date, rity or Exercise (Month/Day/Year) if any			4. Transaction Code (Instr. 8)			vative rities rired r osed ) r. 3, 4	Expirat	ate Exercisable and iration Date nth/Day/Year)			e and int of rities rlying ative rity 3 and 4)	nt		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	e s ully	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code V		(A)	(D)	Date Exercis	able	Expiration Date	Title	Number of Shares						

## Explanation of Responses:

1. Of the shares held as of June 7, 2023, 20,121 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

## Remarks:

Lynnette C. Fallon

06/07/2023

\*\* 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.