FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, I	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

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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* Redinbo Greg					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS										ck all app Direc	licable) tor er (give title	10% Owner			
(Last)	(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year)										') /P MARK	ETI	,		
C/O AXCELIS TECHNOLOGIES, INC.					02/2	02/28/2024								APPLICATIONS						
108 CHERRY HILL DRIVE					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street)														Line		filed by On	e Rep	orting Pers	on	
BEVERI 	LY M.	A 0	1915													filed by Mo		in One Repo		
(City)	(St	ate) (2	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.													nded to						
		Table	I - Nor	n-Deriva	tive S	Secui	rities	Acq	uired,	Dis	osed of	, or l	Bene	ficial	ly Own	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Execution Da			Date,	3. Transaction Code (Instr. 8)						Benefic Owned	ties cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A (D	or l	Price		orted nsaction(s) tr. 3 and 4)			(Instr. 4)	
Common Stock 02/28/2						2024			F ⁽¹⁾		477	477		(2)	17,360(3)			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)	ivative Conversion Date Execution Date, urity or Exercise (Month/Day/Year) if any			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 (Instr 3 and 4)		S (I	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code				Date Expirati Exercisable Date		Expiration Date	Title	Amo or Num of Shar	ber						

Explanation of Responses:

- 1. This forfeiture of shares for tax withholding purposes relates to the vesting on February 28, 2024 of performance based restricted stock units ("PRSUs") granted to the executive in May 2023. Of the units granted, 135% were determined to be earned by the executive pursuant to a resolution of the Axcelis Technologies, Inc. Compensation Committee on February 8, 2024, and half of the earned shares vested on February 28, 2024. As agreed with the executive, the shares issued to the executive on the vesting were reduced by a number of shares having a value equal to the executive's tax withholding obligation with respect to the vested PRSUs.
- 2. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of PRSUs on February 28, 2024.
- 3. Of the shares held as of February 28, 2024 after the vesting of the 2023 PRSUs, 13,074 were issuable on vesting of restricted stock units granted to the reporting person under the 2012 Equity Incentive Plan and are subject to forfeiture.

/s/ Lynnette C. Fallon, 02/28/2024 Attorney-in-Fact

** 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.