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(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
11	OMB Number: 3235-0287									
Estimated average burden										
hours per re	esponse:	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

1. Name and Address of Reporting Person* Lawson Douglas A.					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify							
(Last)	(Fir	st) (M	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/28/2024								E	belov	,	MKT	below)	ATEGY	
108 CHERRY HILL DRIVE					4. If <i>I</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)							Lin	6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) BEVERI	LY MA	A 0	1915			X Form filed by C Form filed by N Person									filed by Mo					
(City)	(Sta	ate) (Z	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 satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.										ın that is intei	nded to					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution D		Date,	3. Transaction Code (Instr. 8)					nd Securit Benefic	ies cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
									Code	v	Amount	(A (D) or)	Price	Transa	ction(s) 3 and 4)			(111511. 4)	
Common Stock 02/28/					2024		F ⁽¹⁾		958	D		(2)	18,690 ⁽³⁾			D				
Common Stock 02/28/2					2024		F ⁽⁴⁾		457	D		(2)	18,233(5)		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)	Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any			4. Transaction Code (Instr. 8)		of Deriv Secu Acqu (A) o Disp of (D	vative urities uired or oosed 0)	Expiration Description (Month/Day)		te	7. Title and Amount of Securities Underlying Derivative Security (In 3 and 4)		f g	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code V		(A)	(D)			Expiration Date	Title	Amount or Number of Shares							

Explanation of Responses:

- 1. This forfeiture of shares for tax withholding purposes relates to the vesting on February 28, 2024 of the remainder of performance based restricted stock units ("PRSUs") granted to the executive in May 2022. These shares were determined to be earned by the executive pursuant to a resolution of the Axcelis Technologies, Inc. Compensation Committee on February 16, 2023, and half of the earned shares vested on February 28, 2023. As agreed with the executive, the shares issued to the executive on the vested shares 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 2022 PRSUs and before the vesting of the 2023 PRSUs, 13,382 were issuable on vesting of restricted stock units granted to the reporting person under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 4. This forfeiture of shares for tax withholding purposes relates to the vesting on February 28, 2024 of performance based restricted stock units 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 vested PRSUs were reduced by a number of shares having a value equal to the executive's tax withholding obligation with respect to the vested PRSUs.
- 5. Of the shares held as of February 28, 2024 after the vesting of both the 2022 PRSUs and 2023 PRSUs, 11,827 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, Attorney-in-Fact

02/28/2024

** 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.