FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL												
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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 and Address of Reporting Person* Lawson Douglas A. (Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS] 3. Date of Earliest Transaction (Month/Day/Year) 05/16/2023 4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) EVP, Corporate Mktg & Strategy 6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) BEVER	LY M.	A 01915													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.														
1. Title of	Security (Ins		I - N	2. Transaction	2.6	. Dee	med	Т	3.		4. Securities	Acquire	ed (A) or		5. Am	ount of			7. Nature	
Date (Month/Day/Ye					ar) Execution Date, if any (Month/Day/Year)			. I	Transaction Code (Instr. 8)			(D) (Ins	tr. 3, 4 and	Beneficially Owned Following		icially d ving	Form: Direc (D) or Indirect (I) (Instr. 4)		of Indirect Beneficial Ownership (Instr. 4)	
									Code V		Amount	(A) or (D)	Price		Trans	reported ransaction(s) nstr. 3 and 4)				
Common Stock 05/16/202						3			F		536	D ⁽¹⁾	\$129.9	³ 2 ⁽²⁾ 25		5,314 ⁽³⁾		D		
Common Stock 05/17/202						3		F			744	D ⁽¹⁾	\$137.6	9 ⁽²⁾	24,570 ⁽⁴⁾			D		
Common Stock 05/18/2023						3			S		4,703	D	\$141.0	5 ⁽⁵⁾	(5) 19,867 ⁽⁶⁾		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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date,			ansaction of Derivative Securitic Acquirer (A) or Dispose of (D) (Instr. 3, and 5)		vative rities iired r osed) r. 3, 4	Expii (Mon	ration hth/Day	(Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4		Deri Sec	Price of derivative derivative (ecurity enstr. 5) Reported Transacti (Instr. 4)		y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

- 1. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.
- $2. \ Represents the closing price of the common stock on the date of the tax withholding.$
- 3. Of the shares held after this tax withholding forfeiture (and related vesting) on May 16, 2023, 17,514 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 4. Of the shares held after this tax withholding forfeiture (and related vesting) on May 17, 2023, 15,838 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 5. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$141.00 to \$141.36, inclusive. The reporting person undertakes to provide to Axcelis Technologies, Inc., any security holder of Axcelis Technologies, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.
- 6. Of the shares held after this sale on May 18, 2023, 15,838 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

<u>Lynnette C. Fallon, as</u> <u>attorney in fact for Douglas</u>

05/18/2023

A. Lawson

** 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.