FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
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II.									
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	Check this box if no longer subject
١	to Section 16. Form 4 or Form 5
)	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

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) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 05/15/2023										below) below) EVP, Corporate Mktg & Strategy						
108 CHERRY HILL DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)							
(Street) BEVERI	RLY MA 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.															tended to					
		Table	I - N	lon-Deriva	tive	Secu	ritie	es Ac	quir	ed, D	Dis	posed o	f, or E	Benefic	ially	<b>Owr</b>	ned					
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day)					ear) i	fany	on Date,		3. Transaction Code (Instr. 8)				Acquired (A) or (D) (Instr. 3, 4 and		d 5) Securi Benefi Owned Follow		icially d <i>r</i> ing	Fori (D) ( Indi	wnership m: Direct or rect (I) tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
							Code	v	A	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)								
Common	05/15/202	23				A			576	A	\$0.00	)(1)	26,018 <sup>(2)</sup>			D						
Common Stock 05/15/20						3						2,304	A	\$0.00	.00(3)		28,322(4)		D			
Common	Stock			05/15/202	3				F			1,263	<b>D</b> <sup>(5)</sup>	\$127.9	99 <sup>(6)</sup>	27,059 <sup>(7)</sup>		D				
Common Stock 05/15/202									F			1,209	D <sup>(5)</sup>	\$127.9	7.99 <sup>(6)</sup> 25,850 <sup>(8)</sup>		,850 <sup>(8)</sup>	B50 <sup>(8)</sup> D				
		Tab	le I	l - Derivati (e.g., pu												Owne	d					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	2. 3. Transaction Date (Month/Day/Year) 3. A. Deemed Execution Date, if any (Month/Day/Year) 3. Transaction Date (Month/Day/Year) 4. Transaction Code (Instr. 8) 5. Number of Code (Instr. 8)						erivative curities quired or sposed	Exp (Mo	piration	ercisable and		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4		Deri Seci	Price of Privative Privati	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership t (Instr. 4)		
					Code	v	(A)	) (D)	Dat Exe	te ercisab	ıle	Expiration Date	Title	Amount or Number of Shares								

## **Explanation of Responses:**

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of employment, 100% of these restricted stock units will vest on May 15, 2024.
- 2. Of the shares held after this first grant on May 15, 2023, 21,989 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 3. In this grant under the Company's 2012 Equity Incentive Plan, the executive may earn shares of common stock, ranging from zero to 150% of the granted units. The shares are earned based on the achievement of 2023 performance goals. Assuming continuation of employment,50% of the earned shares will vest on February 28, 2024 and 50% of the earned shares will vest on February 28, 2025. Unearned restricted stock units will forfeit on February 28, 2024.
- 4. Of the shares held after this second grant on May 15, 2023, 24,293 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. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.
- 6. Represents the closing price of the common stock on the date of the tax withholding.
- 7. Of the shares held after this first tax withholding forfeiture (and related vesting) on May 15, 2023, 21,446 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 8. Of the shares held after this second tax withholding forfeiture (and related vesting) on May 15, 2023, 18,722 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:

Lynnette C. Fallon, as attorney in fact for Douglas

05/16/2023

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.

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