FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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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)

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* Low Russell	2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner V Officer (give title Other (speci							
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.			3. Date of Earliest Transaction (Month/Day/Year) 05/15/2024						X	below	<i>ı</i>) ``	below T AND CEO)	
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 Line)					
(Street) BEVERLY MA 0191	5									X		filed by Moi	e Reporting Per re than One Re	- 1
(City) (State) (Zip)		Rul	le 10	b5-1(c) Tı	ransa	ction Inc	licatio	on .					
	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.													
Table I -	Non-Deriva	tive S	Secur	ities A	cqui	red, D	isposed o	f, or B	enefici	ally	Own	ed		
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Yo	ear) E	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)					and 5) S		ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
					Code	e V	Amount	(A) or (D)	Price			ction(s) 3 and 4)		(Instr. 4)
Common Stock	05/15/202	4			A		14,244	A	\$0 ⁽¹⁾)	71	,998(2)	D	
Common Stock	05/15/202)24			A	Ш	14,244	A	\$ <mark>0</mark> (3)	86	,242(4)	D	
Common Stock	05/15/202	4			F	\perp	1,399	D ⁽⁵⁾	\$112.9	4 ⁽⁶⁾	84	,843 ⁽⁷⁾	D	
Common Stock	05/15/202	4			F		1,333	D ⁽⁸⁾	\$112.9	94 ⁽⁶⁾ 83,510 ⁽⁹⁾		,510 ⁽⁹⁾	D	
Common Stock	05/16/202	124			F		652	D ⁽¹⁰⁾	\$113.5	57(6) 82		858(11)	D	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)														
Derivative Conversion Date Exercise (Month/Day/Year) if a	Deemed scution Date, ny onth/Day/Year)	4. Transa Code (8)		5. Numbord Derivative Securities Acquired (A) or Dispose of (D) (Instr. 3, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		Amount of Securities S		8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
Explanation of Responses:		Code	v	(A) (D		ate kercisable	Expiration Date	Title	Amount or Number of Shares					

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan on May 15, 2024. Assuming continuation of employment, these restricted stock units will vest as to 25% of the shares granted on each of May 15, 2025, May 15, 2026, May 15, 2027, and May 15, 2028.
- 2. Of the shares held following this grant on May 15, 2024, 46,019 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 3. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan on May 15, 2024. In this grant, 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 2024 performance goals. Assuming continuation of employment, 50% of the earned shares will vest on February 28, 2025, and 50% of the earned shares will vest on February 28, 2026. Unearned restricted stock units will forfeit on February 28, 2025.
- 4. Of the shares held after this grant on May 15, 2024, 60,263 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. This forfeiture of shares for tax withholding purposes relates to the vesting on May 15, 2024 of service vesting restricted stock units granted to the executive in May 2023. 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 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 vesting event on May 15, 2024, 57,109 were issuable on vesting of restricted stock units granted to the reporting person under the 2012 Equity Incentive Plan and are subject
- 8. This forfeiture of shares for tax withholding purposes relates to the vesting on May 15, 2024 of service vesting restricted stock units granted to the executive in May 2020. 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 restricted stock units.
- 9. f the shares held after this vesting event on May 15, 2024, 54,104 were issuable on vesting of restricted stock units granted to the reporting person under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 10. This forfeiture of shares for tax withholding purposes relates to the vesting on May 16, 2024 of service vesting restricted stock units granted to the executive in May 2022. 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 restricted stock
- 11. Of the shares held after this vesting event on May 16, 2024, 52,634 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

05/17/2024

** Signature of Reporting Person

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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