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	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
obligations may continue. See	
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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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* Low Russell						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS									tionship of Reporting all applicable) Director		ng Per	Person(s) to Issuer 10% Owner	
(Last)	(Fir	est) (M	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/11/2024									Officer (give title below) PRESIDENT		T AN	Other (s below) ND CEO	specify
108 CHERRY HILL DRIVE					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check A Line)				
(Street) BEVERLY MA 01915														X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(Sta	ate) (Z	Zip)		Rul	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.													
		Table	I - No	n-Deriva	tive S	Secui	rities	Acc	quired	, Dis	posed of	, or B	enefic	ially	Own	ed			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					Execu	Deemed cution Date, y nth/Day/Year)				s Acquired (A) of f (D) (Instr. 3, 4			Securi Benefi Owned	5. Amount of Securities Seneficially Owned Following		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common Stock 03/11/2					024			P		440	A	A \$112.39		57,754 ⁽¹⁾			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 Security or Exercise (Month/Day/Year) if any			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 (Inst 3 and 4)		Der Sec	Price of ivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code		v	(A)	(D)	Date Exercis	sable	Expiration able Date Title		Amount or Number of Shares						

Explanation of Responses:

1. Of the shares held as of March 11, 2024, 31,775 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

/s/ Lynnette C. Fallon, Attorney-in-Fact

03/11/2024

** 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.