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 3235-0287 Estimated average burden hours per response: 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* Low Russell						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									tionship of Reporting all applicable) Director		ng Per	10% Ov	vner
(Last)	(Fir	est) (N OLOGIES, INC.	Middle	e)		3. Date of Earliest Transaction (Month/Day/Year) 09/07/2023									Officer (give title below) President		and	Other (specify below)	
108 CHERRY HILL DRIVE					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								 Individual or Joint/Group Filing (Check Appli Line) Y Form filed by One Reporting Person 					.
(Street) BEVERLY MA 01915				i											Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)						Rule 10b5-1(c) Transaction Indication													
						Check tl satisfy tl	his box he affirr	to ind native	licate the	at a tra se cond	nsaction was n itions of Rule 1	nade pui 0b5-1(c	suant to a). See Instr	contra	act, instr 10.	uction or writt	en pla	ın that is inter	nded to
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/Y				Year)	if any	emed ion Date, /Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			nd 5) Secu Bene		cially d Following	Form: Direct		7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount	(A) or (D)	Price	Trans		action(s) 3 and 4)			(Instr. 4)	
Common	Common Stock 09/07/20				23				S		3,405	D	\$179.2).25 ⁽¹⁾ 57		7,787 ⁽²⁾		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)	rivative Conversion Date Execution Date, curity 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)		Expir	te Exer ration I th/Day		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code		(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

2. Of the shares held as of September 7, 2023, 39,650 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 09/07/2023 in fact for Russell J. Low,

Ph.D.

** 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.

^{1.} The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$179.00 to \$179.41, 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.