FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL										
T T										
OMB Number:	3235-0287									
 										
Estimated average burden										
hours per response:	0.5									
II nours per response.	0.0									

Check this box if no longer subject 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(b) of the Investment Company Act of 1940

					Т		- '				Joinpariy Act	0. 2040	1.							
1. Name and Address of Reporting Person*					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
Low Russell					AACELIS TECHNOLOGIES INC [ACLS							CES L	X Director		tor	•		vner		
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year)								X	Office	er (give title v)		Other (specif below)			
AXCELIS TECHNOLOGIES, INC.					06/08/2023								President and CEO			CEO				
108 CHERRY HILL DRIVE					4. If Amendment, Date of Original Filed (Month/Day/Year)							, I	Individual or Joint/Group Filing (Check Applicable Line)							
(Street)														X Form filed by One Reporting Person					on	
	BEVERLY MA 01915												Form filed by More than One Reporting Person					orting		
(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.														
		Table	I - N	Ion-Deriva	tive S	ecui	rities	Ac	quired	d, Di	sposed o	f, or E	Benefic	ially	/ Owr	ned				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye					Execution ear) if any		on Date,					s Acquired (A) of f (D) (Instr. 3, 4		and 5) Se Be Ow Fo		Securities Beneficially Owned Following		Direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)					
Common	Stock			06/08/202	23				S	П	3,509	D	\$173.4	41 ⁽¹⁾ 61,19		,192 ⁽²⁾	D			
		Tab	ole II	I - Derivativ (e.g., pu							posed of, convertib				Owne	d				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if ar	Deemed cution Date, ny nth/Day/Year)	4. Transac Code (I 8)	5.		6. Date Exercis. Expiration Date (Month/Day/Yea		Date	sable and 7. Title and Amount of		Deri Sec	rice of ivative urity tr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y G G G O (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amount or Number of Shares	1						

Explanation of Responses:

- 1. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$173.41 to \$173.42, 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.
- 2. Of the shares held as of June 8, 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:

<u>Lynnette C. Fallon, as</u> <u>attorney in fact for Russell J.</u> <u>06/08/2023</u> <u>Low, Ph.D.</u>

** 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.