

OMB APPROVAL	
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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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* <u>Low Russell</u>  (Last) (First) (Middle) AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE  (Street) BEVERLY MA 01915  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC [ ACLS ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director _____ 10% Owner _____ Officer (give title below) _____ Other (specify below) _____ X <b>EVP, Engineering</b>
	3. Date of Earliest Transaction (Month/Day/Year) <u>05/26/2020</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/26/2020		M		16,423	A	\$14	94,061 <sup>(1)</sup>	D	
Common Stock	05/26/2020		S		16,423	D	\$26.69 <sup>(2)</sup>	77,638 <sup>(1)</sup>	D	
Common Stock	05/26/2020		S		13,398	D	\$26.84 <sup>(3)</sup>	64,240 <sup>(1)</sup>	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	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 (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Stock option (right to buy)	\$14	05/26/2020		M			16,423	11/15/2019	11/15/2023	Common Stock	16,423	\$0.00	5,475 <sup>(4)</sup>	D	

**Explanation of Responses:**

- Of the shares beneficially owned by the executive on May 26, 2020, 51,014 shares were issuable on vesting of restricted stock units which are subject to forfeiture.
- The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$26.61 to \$26.85, 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.
- The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$26.72 to \$26.96, 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.
- 21,898 stock options were granted on November 15, 2016. The remaining options for 5,475 shares will vest on November 15, 2020.

**Remarks:**

Lynnette C. Fallon, as attorney 05/26/2020  
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.

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