FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL						
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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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* Blumenstock Gerald M	2. Date of E Requiring S (Month/Day/	tatement	3. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]							
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE	_ 06/12/202	3	4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give Other (specify below) EVP, Engineering			5. If Amendment, Date of Original Filed (Month/Day/Year)				
(Street) BEVERLY MA 01915 (City) (State) (Zip)	-						eck Applicable Form filed I Person	by One Reporting		
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)			. Amount of Securities Beneficially Owned (Instr. I)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		4. Nature of Indirect Beneficial Ownership (Instr. 5)				
Common Stock			0(1)	D						
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
1. Title of Derivative Security (Instr. 4)	2. Date Exerc Expiration Da (Month/Day/Y	ate	Underlying Derivative Security (Instr. 4) Conve		Convers or Exerc	cise Form:	Ownership Form:	Ownership (Instr.		
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivati Security	tive or Indi	Direct (D) or Indirect (I) (Instr. 5)	t ´		

Explanation of Responses:

1. Mr. Blumenstock did not own any reportable securities, directly or indirectly, prior to becoming a reporting person. A Power of Attorney is filed as Exhibit 24.1 to this Form 3.

Remarks:

<u>Lynnette C. Fallon, as</u> <u>attorney in fact for Gerald</u> <u>06/12/2023</u> M. Blumenstock

** 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 5 (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.

POWER OF ATTORNEY For Executing Reports under Section 16(a) with respect to securities of AXCELIS TECHNOLOGIES INC.

The undersigned hereby constitutes and appoints each of Russell J. Low, Lynnette C. Fallon, and Megan Gates, Esq., of the Covington & Burling LLP law firm, each acting singly, the undersigned s true and lawful attorney-in-fact, from the date hereof until this Power of Attorney is revoked, to:

- from the date hereof until this Power of Attorney is revoked, to:

 (1) execute, for and on behalf of the undersigned, Forms 3, 4 and 5 with respect to securities of Axcelis Technologies, Inc. in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in his or her discretion; and
- (2) do and perform any and all acts, for and on behalf of the undersigned, that may be necessary or desirable to complete the execution of any such Form 3, 4 or 5 and the timely filing of such form with the United States Securities and Exchange Commission and any other authority.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform all and every act and thing whatsoever requisite, necessary and proper to be done in the exercise of any of the rights and powers herein granted, as fully for all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or his or her substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming any of the undersigned s responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed this 25th day of May, 2023.

/s/ Gerry Blumenstock Gerald M. Blumenstock