FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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>Redinbo Greg</u>			2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify below) below)						
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 06/15/2023	EVP Marketing and Applications						
C/O AXCELIS	5 TECHNOLO	ECHNOLOGIES, INC. 06/15/2023 LL DRIVE 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Inc.		J						
108 CHERRY HILL DRIVE		1	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)						
· · · · · · · · · · · · · · · · · · ·			-	X Form filed by One Reporting Person						
(Street) BEVERLY	MA	01915		Form filed by More than One Reporting Person						
(City)	(State) (Zip)		Rule 10b5-1(c) Transaction Indication							
			Check this box to indicate that a transaction was made pursuant satisfy the affirmative defense conditions of Rule 10b5-1(c). See							

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. Transac Code (II 8)		4. Securities Disposed Of			5. Amount of Securities Beneficially Owned Following	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	Reported Transaction(s) (Instr. 3 and 4)		
Common Stock	06/15/2023		F		734	D ⁽¹⁾	\$170.97(2)	17 , 803 ⁽³⁾	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. Transac Code (Ir 8)		Secu Acqu (A) o Dispo of (D)	(Month/Day/Year) ivative iurities iurities or posed D) tr. 3, 4		Amount of Securities		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	Amount or Number of Shares				

Explanation of Responses:

1. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.

2. Represents the closing price of the common stock on the date of the tax withholding.

3. Of the shares held after this tax withholding forfeiture (and related vesting) on June 15, 2023, 14,561 shares 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> attorney in fact for Greg <u>Redinbo</u>

06/16/2023

** 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.

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