FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	C. 20549
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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

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 Instruction 1(b).

Name and Address of Reporting Person* <u>Titinger Jorge</u>					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]										all app	,	ng Pers	10% O	wner	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 08/13/2021										belov			below)		
(Street) BEVERI			1915 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								i. Indiv ine) X	Form	orm filed by One Reporting Person orm filed by More than One Reporting erson				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/					.	Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4					and 5) Secur Benef Owne		cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
				Code	v	Amount	(A) or (D)	Price		Transa	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)						
Common Stock 08/13/20						021			S ⁽¹⁾		3,500	D	\$42.8	36 ⁽²⁾	21,681 ⁽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)	vative Conversion Date Execution Date, irity or Exercise (Month/Day/Year) if any			saction e (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		ative rities ired osed . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Date Expiration Date		ate (rear)	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Title Shares		8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		LO. Dwnership Form: Direct (D) Or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

Explanation of Responses:

- 1. This sale of 3,500 shares was made to cover the tax liability incident to the vesting of 15,339 shares during 2020 under restricted stock units granted to the director in 2019 and 2020.
- 2. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$42.85 to \$42.91, 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.
- 3. Of the shares held as of August 13, 2021, 9,842 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney 08/15/2021 in fact for Jorge Titinger

** Signature of Reporting Person

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.