FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549	
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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

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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

Name and Address of Reporting Person* Vachani Dipti						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS									all app Direc	,		(s) to Is 10% Ov Other (s	vner
l	(Fii CELIS TEC CRRY HILI	CHNOLOGIES,	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/15/2022									below			pelow)	specify
(Street) BEVERI (City)			1915 Zip)		4. If A	Line									ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Table	I - No	n-Deriva	tive S	Secui	rities	Acq	uired,	Dis	posed of	, or E	Benef	ficially	Own	ed			
Date			Date	te Exonth/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)				Disposed C	ies Acquired (A Of (D) (Instr. 3,		4 and Secur Benef		cially Following	Form: Direct		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amount	(A) (D)	or Pi	rice	Transa	ction(s) 3 and 4)			(111341. 4)		
Common Stock 03/					2022				A		2,286	A \$0.		0.00(1)	2,286(2)		D		
Common Stock 03/1				03/15/2	2022				A		1,143	A	\$	0.00(3)	3,	3,429(2)			
	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)	ve Conversion or Exercise Price of Derivative Security Date (Month/Day/Year) Date (Month/Day/Year) I Execution Date, if any (Month/Day/Year) Which is a price of Month (Month/Day/Year) Code (Month/Day/Year)		ion Date,	Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expirati (Month/	ion Da		7. Title and Amount of Securities Underlying Derivative Security (II 3 and 4)		Dei Sec (Ins	Price of rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (I or Indire (I) (Instr	n: ct (D) idirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
Fundamentia			v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amou or Numb of Share	oer								

Explanation of Responses:

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of service on the Board of Directors, 25% of these restricted stock units will vest on each of March 15, 2023, March 15, 2024, March 15, 2025 and March 15, 2026.
- 2. All of the shares held as of March 15, 2022 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 3. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of service on the Board of Directors, these restricted stock units will vest on September 15, 2022.

Remarks:

Lynnette C. Fallon, as attorney in fact for Dipti Vachani

03/15/2022

** 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.