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)

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

1. Name and Address of Reporting Person* FALLON LYNNETTE C					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									heck	all app	,	ng Perso	n(s) to Is 10% Ov Other (s	vner
(Last)	(Fir	est) (Middle) CHNOLOGIES, INC.			3. Date of Earliest Transaction (Month/Day/Year) 06/05/2024								1	EXE	below)		below)		
108 CHERRY HILL DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person					
(Street) BEVERLY MA 01915													V		filed by Mo	•	•		
(City) (State) (Zip)				Ru	Rule 10b5-1(c) Transaction Indication														
											nsaction was m itions of Rule 1					uction or writt	en plan th	nat is inter	nded to
		Table	I - N	Ion-Deriva	tive \$	Secui	rities	Ac	quire	d, Di	sposed of	, or E	Benefici	ally	Own	ed			
1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/N				rear) i	if any	med on Date, Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			and 5) Sed Bei Ow		ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price			ted action(s) 3 and 4)			(Instr. 4)
Common Stock 06/05/202					24				F		272	D ⁽¹⁾	\$111.2	9 ⁽²⁾	30,406(3)		Γ		
		Tal	ble II	I - Derivati (e.g., ρι							oosed of, convertib				Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Exercise (Month/Day/Year) if any (Month/Day/Year erivative		cution Date,	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) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amount or Number of		-		9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y Ov Fo Dii or (I)	vnership rm: rect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. This forfeiture of shares for tax withholding purposes relates to the vesting in May 2024 of 4 service vesting restricted stock units granted to the executive in May 2020, 2021, 2022 and 2023. As agreed with the executive, the shares issued to the executive on those vesting events were reduced by a number of shares to cover the executive's tax withholding obligation with respect to the vested restricted stock units. However, the number of shares withheld on the vesting dates was insufficient to cover a Massachusetts income tax surcharge applicable to the executive, so additional shares have been withheld to cover the shortfall, as reported herein.
- 2. Represents the closing price of the common stock on the date prior to the tax withholding.
- 3. Of the shares held after this forfeiture event on June 5, 2024, 11,845 were issuable on vesting of restricted stock units granted to the reporting person under the 2012 Equity Incentive Plan and are subject to forfeiture.

/s/ Lynnette C. Fallon 06/05/2024

** 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.