FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, I	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

OMB APPROVAL 3235-0287 Estimated average burden hours per response: 0.5

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* Tatnall Christopher					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									Chec	k all app Direc	licable)			Owner (specify
(Last)	(Fii	est) (N	/iddle)			3. Date of Earliest Transaction (Month/Day/Year) 09/15/2023								X	below)		below) stomer Operation		· ·
108 CHERRY HILL DRIVE					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) BEVERLY MA 01915														X Form filed by One Reporting Person 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 to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.													
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	juired,	Dis	posed of	, or E	Benefic	ially	/ Own	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Exec if any	Deemed cution Date, y nth/Day/Year)				es Acquired (A) Of (D) (Instr. 3, 4		4 and Secur Benef Owne		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) (D)	or Price	;	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common	Stock			09/15/2	2023				A		1,125	A	\$0.0	\$0.00 ⁽¹⁾ 8,327 ⁽²⁾ D					
		Tal	ole II -								osed of, convertib			-	Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed ion Date, /Day/Year)	Date, Transaction Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		De	ivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (or Indir (I) (Inst	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	(A)	(D)	Date Expiration Exercisable Date Ti			Title	Amount or Number of Shares	1							

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 employment, 25% of these restricted stock units will vest on each of September 15, 2024, September 15, 2025, September 15, 2026, and September 15, 2027.
- 2. Of the shares held after this grant on September 15, 2023, 8,150 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney in fact for Christopher Tatnall, 09/15/2023

** 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.