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

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* FALLON LYNNETTE C						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									ck all app Direct Office	tor er (give title	J	10% O	wner
(Last)	(First) (Middle)					Date of Earliest Transaction (Month/Day/Year)								- ^	belov	v) xecutive V	VP H	below)	
C/O AXCELIS TECHNOLOGIES, INC.						11/15/2022											,	1020801	
108 CHERRY HILL DRIVE																			
(2)	4. If A	If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)									
(Street) BEVERI	LY MA	A 0	1915											X		filed by On		ŭ	- 1
(City)	(Sta	ate) (Z	Zip)												Perso				
		Table	I - Nor	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	Bene	ficiall	y Own	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Exec Day/Year) if an		. Deemed ecution Date, any onth/Day/Year)		3. Transaction Code (Instr. 8)					, 4 and Secur Benef		cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) (D)	or F	rice	Transa	ction(s) 3 and 4)			(
Common Stock 11/15/2				2022			S		3,563	I	D	\$79	79 47,770 ⁽¹⁾			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. Deer Execution if any (Month/I		4. Transaction Code (Instr. 8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		De Se (Ir	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amou or Numb of Share	per					

Explanation of Responses:

1. Of the shares held as of November 15, 2022, 31,406 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

11/15/2022

** 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.