FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 205	49
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STATEMENT OF	CHANGES IN	BENEFICIAL	OWNERSHIP
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OMB APPROVAL										
OMB Number:	3235-0287									
Estimated average burden										
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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).

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 ]								k all app Direc	licable) tor er (give title	10% Owner		vner	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 08/09/2021								E	xecutive V	/P, HR	R/Legal			
(Street) BEVERI (City)			1915 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Ap Line)  X Form filed by One Reporting Person  Form filed by More than One Reported Person								on					
		Table	I - Nor	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	oosed of	, or E	Benef	icially	y Own	ed			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da				Execution Date,		Date,	3. Transaction Code (Instr. 8) 4. Securitie Disposed (5)				3, 4 and Securi		ies cially Following	Form:	Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Code	v	Amount	(D)		rice	Transaction(s) (Instr. 3 and 4)				(111341. 4)	
Common	Stock			08/09/	2021				S		4,978	I	)	\$44	64	,732 <sup>(1)</sup>	]	D	
		Tal									osed of, onvertib				Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction 3A. Deemed Execution Date, if any (Month/Day/Year)			4. Transaction Code (Instr. 8)		of Deriv Secu Acqu (A) o Dispo	r osed ) r. 3, 4	Expiration Da (Month/Day/Yo		te	7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		De Se (In	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transaction (Instr. 4)	y D o (I	0. Ownership orm: Direct (D) r Indirect ) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amou or Numb of Share	er					

## **Explanation of Responses:**

1. Of the shares held as of August 9, 2021, 36,921 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

08/09/2021

\*\* 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.