Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

vvasnington,	D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

					1 000	JUIOIT C	BU(n) of the ir	IVCStillC	111 00	ilpariy Act c	110-10					
1. Name and Address of Reporting Person* FALLON LYNNETTE C					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
]								04:-	or er (give title		owner (specify	
(Last)	(Last) (First) (Middle)						Date of Earliest Transaction (Month/Day/Year)						belov	w) ``	below	
C/O AXCELIS TECHNOLOGIES, INC.					12/14/2023						Е	Executive VP, HR/Legal				
108 CHERRY HILL DRIVE				4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable Line)						
(Stroot)													X Form	filed by On	e Reporting Per	rson
(Street) BEVERLY MA 01915										Form filed by More than One Reporting Person			porting			
(City)	(St	ate) (Z	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	ecui	rities Acq	uired,	, Dis	posed of	, or Be	nefici	ally Own	ed		
1. Title of Security (Instr. 3) 2. Transact Date (Month/Date)			Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (ADISPOSE OF (D) (Instr. 3D)				nd Securi Benefi Owner	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
					Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)			
Common Stock 12/14/2				2023			G		365	D	\$0.0	0(1) 31	,006(2)	D		
		Tal					ties Acqu warrants,							d		
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date, Tructive or Exercise (Month/Day/Year) if any C		4. Transac Code (Ir 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)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownershi (Instr. 4)			

Explanation of Responses:

- 1. These shares of Common Stock were donated by the executive as a gift to a Fidelity Charitable Account, a donor advised fund, entitled L&G Fallon Charitable Fund.
- 2. Of the shares held as of December 14, 2023, 20,121 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Date

Exercisable

Remarks:

Lynnette C. Fallon

or Number

12/15/2023

Expiration Date

** 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.