FORM 4

obligations may continue. See

Instruction 1(b)

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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* <u>FALLON LYNNETTE C</u>						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									Check	tionship of Reporting all applicable) Director Officer (give title		g Person(s) to Issuer 10% Owner Other (specify		
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 05/16/2018									X	below) below) Executive VP, HR/Legal				
(Street) BEVERLY MA 01915 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)										. Indiv ine) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - No	n-Deriv	ative	Se	curiti	es Ac	quired,	Dis	posed o	f, or	Bene	eficia	ally (Owne	ed			
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Yea		Execution Date,		3. Transa Code (8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				4 and 5) Secui Benet		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Ownership		
									Code	v	Amount	(A) or D)	Price	:	Transa	action(s) 3 and 4)		(Instr. 4)	
Common Stock 05/16					/2018						1,406		D ⁽¹⁾	\$22.4(2)		51,110 ⁽³⁾		D		
Common Stock 05/1					5/16/2018				A		7,589		A	\$0.00(4)		58,699 ⁽⁵⁾		D		
Common Stock 05/16					5/16/2018				A		7,589		A	\$0.00(6)		66,288 ⁽⁷⁾		D		
Common Stock 05/17/					7/2018						645		D ⁽⁸⁾	\$22.4(9)		65,643 ⁽¹⁰⁾		D		
		Та									sed of, onvertib					vned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) if any (Month/Day/Year) (Month/Day/Year)		n Date,	4. Transaction Code (Instr. 8)		of Deri Seco Acq (A) of Disp of (I	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		on Dat Day/Ye		7. Title and Amount of Securities Underlying Derivative Security (Inst and 4) Amount of Number of Title Share		ount nber			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)		

Explanation of Responses:

- 1. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units on May 16, 2018.
- 2. Represents the closing price on May 16, 2018.
- 3. Of the shares held as of May 16, 2018, 18,295 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 4. 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 May 16, 2019, May 16, 2020, May 16, 2021 and May 16, 2022.
- 5. Of the shares held as of May 16, 2018, 25,884 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 6. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of employment, up to 50% of these restricted stock units will vest on each of February 28, 2019 and February 28, 2020, based on performance vesting criteria. Unvested restricted stock units will forfeit on February 28, 2019
- 7. Of the shares held as of May 16, 2018, 33,473 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 8. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units on May 17, 2018.
- 9. Represents the closing price on May 17, 2018.
- 10. Of the shares held as of May 17, 2018, 31,286 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon 05/17/2018 ** 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.