Instruction 1(b)

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: 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					AXCELIS TECHNOLOGIES INC [ACLS]								heck all a	pplicable) rector	Ü	rson(s) to Iss 10% Ov	vner		
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 12/10/2019									Officer (give title Other (specify below) Executive VP, HR/Legal				
(Street) BEVERI			01915 (Zip)		4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								ne) X Fo	Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I - Noi	n-Deri\	/ative	e Se	curit	ties Ac	quired,	Dis	posed o	f, or Be	neficia	Ily Ow	ned				
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr.					d Sec Ben Owi	mount of urities eficially ned Followir	Fori	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) or (D)	Price	Trai	orted saction(s) tr. 3 and 4)			(Instr. 4)	
Common Stock				12/10	0/2019				М		18,00	0 A	\$7.	2	102,071(1)		D		
Common Stock 12				12/10	0/201	/2019			S		18,00	0 D	\$22.	3(2)	89,071(1)		D		
		-	Table II -								osed of, onverti			y Owne	ed				
Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,		ansaction ode (Instr.		of		6. Date Exercisal: Expiration Date (Month/Day/Year)		of Securitie		Deriva Securi	tive deriva Secur 5) Benef Owne Follow Repor	ities icially d ving ted action(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to	\$7.2	12/10/2019			M			18,000	07/15/20	18 (07/15/2021	Common Stock	18,000	\$0.0	0 19),500	D		

Explanation of Responses:

- 1. Of the shares held as of December 10, 2019, 41,404 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 2. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$22.76 to \$22.89, inclusive. The reporting person undertakes to provide to Axcelis Technologies, Inc., any security holder of Axcelis Technologies, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.

Remarks:

Lynnette C. Fallon

12/10/2019

** 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.