FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL
l	OMB Number:	3235-0287
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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* FALLON LYNNETTE C						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								(Checl	k all applic Directo	cable) r	ing Person(s) to Issue 10% Owr		vner
	,	CHNOLOGIES,	(Middle)		02	/06/2	017		`		/Day/Year)	av/Vaar)		X 6 Indi	Executive VP, HR/Legal				
(Street) BEVERLY MA 01915					_ 4.1	I Ame	enament, i	Dale 0	ii Originai	rilec	t (Month/Da		Line)	,				n	
(City)	(S	tate)	(Zip)												Person				itung
		Tab	le I - No	n-Deri	vativ	e Se	curities	s Ac	quired,	Dis	sposed o	f, or Be	nefic	ially	Owned				
				2. Transaction Date (Month/Day/Year)		ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)					nd 5)	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price	е	Transact (Instr. 3 a	ion(s)			(Instr. 4)
Common	Stock			02/06/2017		7			M		32,504	4 A	\$3	\$3.72		780 ⁽¹⁾		D	
Common Stock					02/06/2017				S		178	D	\$1	\$16.6		,602		D	
Common	Stock			02/0	/06/2017				S		1,138	D	\$1	\$16.55 79,		,464		D	
Common Stock					6/2017				S		13,500) D	\$1	\$16.5 65,		964		D	
Common Stock					/06/2017				S		500	D	\$16	6.525 65,		464		D	
Common Stock 02					6/2017	7			S		7,400	D	\$1	6.45 58,		,064		D	
Common Stock 02/06					6/2017	2017			S		1,700	D	\$1	\$16.48 56,		,364		D	
Common Stock 02/06/2					6/2017	2017			S		8,088	D	\$1	\$16.4 48,		3,276		D	
Common Stock 02/07/2					7/2017	2017		M		4,996	A	\$3	\$3.72 53		3,272		D		
Common Stock 02/07/						2017			S		4,996	D \$16		6.35	48,276(1)		D		
		-	Гable II -								osed of, convertil				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	4. Transa Code (8)		5. Numb of Derivati Securiti Acquire (A) or Dispose of (D) (II 3, 4 and	ive ies ed ed nstr.	6. Date Exercisable and Expiration Date (Month/Day/Year)		e	1		8. Price of Derivative Security		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisal		Expiration Date	Title	Amou or Numb of Share	oer					
Stock Option (right to buy)	\$3.72	02/06/2017			M		32,504		07/16/20	16	07/16/2019	Common Stock	32,5	04	\$0.00	4,996	5	D	
Stock option (right to buy)	\$3.72	02/07/2017			M		4,996		07/16/20	16	07/16/2019	Common Stock	4,99	96	\$0.00	0		D	

Explanation of Responses:

1. Of the shares held as of February 6, 2017 and February 7, 2017, 25,455 were issuable on vesting of restricted stock units granted under the 2012 Equity Incentive Plan and are subject to forefeiture.

Remarks:

Lynnette C. Fallon

02/07/2017

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

^{*} 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).