FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

STATEMENT 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* <u>ALDEBORGH JOHN E</u>							2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									of Reporting Persoable) or		son(s) to Issuer 10% Owner Other (specify		
(Last) 108 CHE	(FERRY HILL	irst) . DRIVE		3. Date of Earliest Transaction (Month/Day/Year) 11/08/2017								X	below)	r (give title P, Customer O		below)				
(Street) BEVERLY MA 01915 (City) (State) (Zip)					_	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line) X	Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - No	n-Deri	vativ	e Se	curit	ties Ac	quired,	Dis	sposed o	f, or Be	nefic	ially	Owned					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					ur) Ex	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transa Code (I 8)		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			nd 5) Securitie Benefici		es ally Following	Form (D) o	r Indirect Indirect	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price)	Transaci (Instr. 3	tion(s)			(Instr. 4)	
Common Stock 11/08/2						017			М		87,500	A	\$7	'.96	126,946(1)			D		
Common Stock 11/08/2					3/2017	2017					87,500	D	\$33	.22(2)	39,4	446(1)		D		
		٦	Γable ΙΙ ·								osed of, converti			•	wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,		ransaction code (Instr.		of		xerci: n Dat ay/Ye		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		D S	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	i S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amou or Numb of Share	per						
Stock Option (right to	\$7.96	11/08/2017			М			87,500	07/15/20	17	07/15/2020	Common Stock	87,5	00	\$0.00	0		D		

Explanation of Responses:

- 1. Of the shares held as of November 8, 2017, 28,675 were issuable on vesting of restricted stock units granted 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 \$32.95 to \$33.48, 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, as attorney in fact for John E. Aldeborgh

11/08/2017

** 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.