FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APP	ROVAL
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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

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1. Name and Address of Reporting Person* <u>ALDEBORGH JOHN E</u>						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]										all app	olicable) ctor	ng Person(s) to Issu		wner
(Last)	(Fi RRY HILL	,	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 05/16/2018										belov	,	ner Oj	Other (specify below) er Operations	
(Street) BEVERI (City))1915 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check App Line) X Form filed by One Reporting Person Form filed by More than One Report Person											on			
		Tabl	le I - No	n-Deri\	ative	Sec	uritie	s Acc	uired,	Dis	posed o	f, o	r Ben	efici	ially	Owne	ed			
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Year)		r) Ex	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				4 and 5) Secui Benef Owne		urities I eficially (ned Following (vnership :: Direct r Indirect :str. 4)	7. Nature of Indirect Beneficial Ownership
							Code	v	Amount		(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)		<u> </u>		(Instr. 4)		
Common Stock					05/16/2018				F		1,507		D ⁽¹⁾	\$22.4(2)		36	36,364 ⁽³⁾		D	
Common	Common Stock				05/16/2018				Α		8,131		A	\$0.00(4)		44,495(5)			D	
Common Stock					05/16/2018				A		8,131		A	\$0.00(6)		⁶⁾ 52,626 ⁽⁷⁾		D		
Common Stock				05/17/2018					F		737	T	D ⁽⁸⁾) ⁽⁸⁾ \$22.4 ⁽⁹⁾		4 ⁽⁹⁾ 51,889 ⁽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)	3A. Deem Execution if any (Month/D	n Date,		Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Exercison Dat Day/Ye		or		estr. 3	8. Price Derival Securit (Instr. 5	vative ırity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Oi Fo Di (I)	D. wnership orm: irect (D) r Indirect) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
	Code V			v	(A)	(D)			Expiration Date	Number of Shares										

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, 20,227 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, 28,358 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, 36,489 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, 33,989 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

<u>Lynnette C. Fallon, as attorney</u> in fact for John E. Aldeborgh

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.