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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no long	er subject to
Section 16. Form 4 or Fo	
obligations may continue	
Instruction 1(b).	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL									
OMB Number:	3235-0287								
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1. Name and Address of Reporting Person*			2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>ALDEBORGH JOHN E</u>				·	Director	10% Owner			
·				x	Officer (give title	Other (specify			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)		below)	below)			
(Last) (First) (Middle) 108 CHERRY HILL DRIVE			05/15/2019		EVP, Customer O	perations			
100 CHERKI	HILL DRIVE								
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Filing	g (Check Applicable			
BEVERLY	MA	01915		X	Form filed by One Repo	orting Person			
,					Form filed by More than	n One Reporting			
(City)	(State)	(Zip)			Person				

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 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 (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150. 4)
Common Stock	05/15/2019		A		13,902	A	\$0.00 ⁽¹⁾	64,692 ⁽²⁾	D	
Common Stock	05/15/2019		A		13,902	A	\$0.00 ⁽³⁾	78,594 ⁽⁴⁾	D	
Common Stock	05/16/2019		F		1,811	D ⁽⁵⁾	\$16.95 ⁽⁶⁾	76,783 ⁽⁷⁾	D	
Common Stock	05/16/2019		F		720	D ⁽⁵⁾	\$16.95 ⁽⁶⁾	76,063 ⁽⁷⁾	D	
Common Stock	05/17/2019		F		885	D ⁽⁵⁾	\$16.5 ⁽⁶⁾	75,178 ⁽⁸⁾	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		5. Nu of Deriv Secu Acqu (A) of Dispo of (D) (Instr and 5	vative rities ired r osed) . 3, 4	6. Date Exerc Expiration Da (Month/Day/)	ate	7. Title Amouri Securi Underi Deriva Securi and 4)	nt of ties lying tive ty (Instr. 3	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. 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 15, 2020, May 15, 2021, May 15, 2022 and May 15, 2023.

2. Of the shares held as of May 15, 2019, 43,827 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

3. 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, 2020 and February 28, 2021, based on performance vesting criteria. Unvested restricted stock units will forfeit on February 28, 2020.

4. Of the shares held as of May 15, 2019, 57,729 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

5. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.

6. Represents the closing price of the common stock on the date of the tax withholding.

7. Of the shares held as of May 16, 2019, 50,584 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture. 8. Of the shares held as of May 17, 2019, 48,084 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney

05/17/2019

** Signature of Reporting Person Date

in fact for John E. Aldeborgh

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.

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