FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN E

OMB APPROVAL BENEFICIAL OWNERSHIP

П	027	· · · · · -							
l	OMB Number:	3235-0287							
l	Estimated average burden								
ı	hours nor resnance.	0.5							

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

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]									all applic Directo	r		10% Ov	vner	
(Last) 108 CHE	ast) (First) (Middle) 08 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/13/2020									below)			Other (s below) perations	specify	
(Street) BEVERI		tate)	01915 (Zip)		-	4. If Amendment, Date of Original Filed (Month/Day/Year)								ine) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	ole I - No	n-Deriv	vativ	e Se	curit	ties Ac	quired	l, Dis	sposed o	f, or Be	nefici	ally	Owned					
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day				Execu ay/Year) if any		2A. Deemed Execution Date, if any (Month/Day/Year)		action (Instr.	4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			and 5) Securiti Benefici Owned		es ally Following	Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									v	Amount	nt (A) or (D) Pr			Reported Transaction(s) (Instr. 3 and 4)						
Common Stock 02/13/2				/2020	020			M		47,100	00 A \$1		.04	117,484(1)			D			
Common	ommon Stock 02/13/2			/2020	2020		S		47,100	47,100 D \$28		76 ⁽²⁾	70,384(1)			D				
		-	Table II								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 Executior if any (Month/Da	Date,		ransaction ode (Instr.		n of		Exerci on Da Day/Yo		7. Title and Amor of Securities Underlying Derivative Secur (Instr. 3 and 4)		D	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	illy	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	Amour or Number of Shares	er						
Stock option (right to	\$12.04	02/13/2020			M			47,100	07/15/2	019	07/15/2022	Common Stock	47,10	00	\$0.00	0		D		

Explanation of Responses:

- 1. Of the shares held as of February 13, 2020, 48,082 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 \$28.75 to \$29.01, 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

02/13/2020

** 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.