FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

washington, D.O. 200

STATEMENT	OF CHA	ANGES IN	BENEFICIAL	OWNERSHIP

OIVID AFF	OVAL
OMB Number:	3235-0287
Estimated average bu	ırden
houre per reenonee.	0.5

10% Owner

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director

OMB ADDDOMAI

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

1. Name and Address of Reporting Person*

BREWER KEVIN J

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

AXCELIS TECHNOLOGIES INC [ACLS]

2. Issuer Name and Ticker or Trading Symbol

					- L										(give title		Other (s	specify
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 05/25/2017								below)	below) below) below) EVP & Chief Financial Office			er		
100 CHE	ERRY HILI	LDRIVE			4. 1	If Ame	endme	nt, Date o	of Origina	al File	d (Month/Da	ıy/Year)	6. li	ndividual or .	Joint/Group	Filing (Check Ap	plicable
(Street)	LY M	IA	01915			4. If Amendment, Date of Original Filed (Month/Day/Year)						Line	e) X Form f Form f	Form filed by One Reporting Person Form filed by More than One Reporting Person			n	
(City)	(S	tate)	(Zip)										1 01301					
		Tab	ole I - No	n-Deriv	vativ	e Se	curit	ties Ac	quired	, Di	sposed o	f, or Be	neficial	y Owned	l			
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction I Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 a			Benefici Owned	es ially Following	Form:	Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)	
Common	Common Stock 05/25/		/2017	,			М		37,500	A	\$6.4	106	,684 ⁽¹⁾		D			
Common	non Stock 05/		05/25	/2017			S		37,500	D	\$21.96	(2) 69,	184(1)	D				
Common	Stock 05/26		05/26	/2017	2017					56,250	A	\$7.96	125	125,434(1)		D		
Common	Stock			05/26	/2017	,			S		56,250	D	\$21.92	2 ⁽³⁾ 69,184 ⁽¹⁾ D				
		-	Table II								oosed of, converti			Owned				
1. Title of Derivative Security (Instr. 3)	Derivative Conversion Date Exe Security or Exercise (Month/Day/Year) if a		3A. Deem Executior if any (Month/Da	n Date, Transaction Code (Ins			on of		Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	e (Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares	per				
Stock Option (right to	\$6.4	05/25/2017			M			37,500	07/15/2	014	07/15/2020	Common Stock	37,500	\$0.00	0		D	

Explanation of Responses:

\$7.96

1. Of the shares held as of May 25 and 26, 2017, 39,167 were issuable on vesting of restricted stock units granted under the 2012 Equity Incentive Plan and are subject to forefeiture.

56,250

2. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$21.90 to \$22.10, 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 purchased at

06/08/2015

07/15/2020

Common

Stock

3. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$21.80 to \$21.95, 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 purchased at each separate price.

Remarks:

Stock option

right to

buy)

<u>Lynnette C. Fallon, as attorney</u> in fact for Kevin J. Brewer

05/26/2017

** Signature of Reporting Person

56,250

\$0.00

Date

0

D

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).

05/26/2017

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

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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.