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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See
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
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				-					
1. Name and Add Lawson Do	1 0	Person*	2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ ACLS ]		ationship of Reporting Person(s) to Issuer < all applicable) Director 10% Owner				
(Last) (First) (Middle)		(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	x	Officer (give title below)	Other (specify below)			
. ,	· · /	· · · · ·	08/15/2017		EVP, Corporate Mk	tg & Strategy			
C/O AXCELIS TECHNOLOGIES, INC.			00/10/2017		· 1	0 00			
108 CHERRY	HILL DRIVE								
,			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicab					
(Street)				Line)					
BEVERLY	МА	01915		X	Form filed by One Reporting Person				
	MA	01915			Form filed by More the Person	an One Reporting			
(City)	(State)	(Zip)							

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

Table 1- Non-Derivative Securities Acquired, Disposed of, or Derivitiendary Owned											
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	
Common Stock	08/15/2017		М		1,954	Α	\$12.04	41,198(1)	D		
Common Stock	08/15/2017		S		1,954	D	\$21.11	39,244	D		
Common Stock	08/15/2017		М		4,688	A	\$7.96	43,932	D		
Common Stock	08/15/2017		S		4,688	D	\$21.1	39,244	D		
Common Stock	08/15/2017		М		7,812	Α	\$7.2	47,056	D		
Common Stock	08/15/2017		S		7,812	D	\$21.14 <sup>(2)</sup>	39,244 <sup>(1)</sup>	D		
Common Stock								3,125	Ι	Held by Spouse	

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

(c.g., puis, varians, options, convertible securities)															
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)		of Deri Sec Acq (A) Disp of (I	oosed D) tr. 3, 4	6. Date Exercisable and 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(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				
Stock Option (right to buy)	\$12.04	08/15/2017		М			1,954	07/15/2017	07/15/2022	Common Stock	1,954	\$0.00	15,625 <sup>(3)</sup>	D	
Stock Option (right to buy)	\$7.96	08/15/2017		М			4,688	07/15/2017	07/15/2020	Common Stock	4,688	\$0.00	0	D	
Stock option (right to buy)	\$7.2	08/15/2017		М			7,812	07/15/2017	07/15/2021	Common Stock	7,812	\$0.00	7,813 <sup>(4)</sup>	D	

#### Explanation of Responses:

1. Of the shares held as of August 15, 2017, 25,986 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 \$21.05 to \$21.15, 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.

3. 31,250 options were granted on July 15, 2015 and were vested as to 50% of the options as of August 15, 2017. Of the remaining 15,625 options held by the executive after the sales on that date, 1953/4 options will vest on the 15th of each of October, January, April and July until fully vested on July 15, 2019, if the officer remains in the service of the Company on such vesting dates.

4. 31,250 options were granted on July 15, 2014 and were vested as to 75% of the options as of August 15, 2017. The remaining 7,814 options held by the executive after the sales on that date will vest on July 15, 2018, if the officer remains in the service of the Company on such vesting date.

### Remarks:

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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