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
nstruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

Name and Address of Reporting Person* Lawson Douglas A.						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									k all appli Directo	cable)	g Per	son(s) to Iss 10% Ov Other (s	vner	
	-	CHNOLOGIES,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 11/07/2017								X	below)			below)` g & Strate	gy	
(Street) BEVERI (City)		tate)	01915 (Zip)		-	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - No			Sec	uriti	ies Ac	quired	l, Di	sposed o			ially	Owned	i .				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					Exe) if ar	a. Deemed secution Date, any lonth/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			and 5) Securiti Benefic		es ally Following	Form (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D)	Price		Transac (Instr. 3	tion(s)			(insu. 4)	
Common Stock 11/07/				2017	017			M		1,953	A	\$12	2.04	41,197(1)			D			
Common	Stock			11/07/	2017				S		1,953	D	\$33.	09(2)	39,2	39,244 ⁽¹⁾ D				
Common	Stock													1 3 125 1 1 1					Held by Spouse	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, 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. Deer Execution if any (Month/E	on Date,		ansaction de (Instr.		of		Exerci on Da Day/Ye		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		D S (I	. Price of Perivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	ly Ow Fo Dir or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	ıble	Expiration Date	Title	Amou or Numb of Share	er						
Stock Option (right to	\$12.04	11/07/2017			M			1,953	10/15/20	017	07/15/2022	Common Stock	1,95	3	\$0.00	13,672 ⁽	(3)	D		

Explanation of Responses:

- 1. Of the shares held as of November 7, 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 \$33.05 to \$33.10, 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 sold at each
- 3. 31,250 options were granted on July 15, 2015 and were vested as to 56.25% of the options as of October 15, 2017. Of the remaining 13,672 options held by the executive after the sales reported on this form, 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.

Remarks:

<u>Lynnette C. Fallon, as attorney</u> in fact for Douglas A. Lawson

11/08/2017

** 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.