

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
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1. Name and Address of Reporting Person* <u>Lawson Douglas A.</u> (Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE (Street) BEVERLY MA 01915 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC [ACLS]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>EVP, Corporate Mktg & Strategy</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>08/10/2015</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting 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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	08/10/2015		M		10,000	A	\$1.6	28,598	D	
Common Stock	08/10/2015		M		12,500	A	\$0.93	41,098	D	
Common Stock	08/10/2015		M		18,750	A	\$1.99	59,848	D	
Common Stock	08/10/2015		M		10,752	A	\$1.8	70,600	D	
Common Stock	08/10/2015		S		31,573	D	\$3.28	39,027	D	
Common Stock	08/10/2015		S		18,896	D	\$3.29	20,131	D	
Common Stock	08/10/2015		S		1,381	D	\$3.3	18,750	D	
Common Stock	08/10/2015		S		152	D	\$3.35	18,598	D	
Common Stock	08/11/2015		M		20,498	A	\$1.8	39,096	D	
Common Stock	08/11/2015		S		17,898	D	\$3.29	21,198	D	
Common Stock	08/11/2015		S		2,600	D	\$3.3	18,598	D	
Common Stock								12,500	I	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. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		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
Stock option (right to buy)	\$1.6	08/10/2015		M			10,000	07/15/2015	07/15/2021	Common Stock	10,000	\$0.00	0	D	
Stock option (right to buy)	\$0.93	08/10/2015		M			12,500	07/16/2015 ⁽¹⁾	07/16/2019	Common Stock	12,500	\$0.00	12,500	D	
Stock option (right to buy)	\$1.99	08/10/2015		M			18,750	07/15/2015 ⁽²⁾	07/15/2020	Common Stock	18,750	\$0.00	37,500	D	
Stock option (right to buy)	\$1.8	08/10/2015		M			10,752	07/15/2015 ⁽³⁾	07/15/2021	Common Stock	10,752	\$0.00	114,248	D	

**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. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		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)	\$1.8	08/11/2015		M			20,498	07/15/2015 ⁽³⁾	07/15/2021	Common Stock	20,498	\$0.00	93,750	D	

Explanation of Responses:

- 50,000 stock options were granted on July 16, 2012 and vested as to 12,500 shares on each of July 16, 2013, 2014 and 2015. The remaining options for 12,500 shares will vest on July 16, 2016.
- 75,000 stock options were granted on July 15, 2013 and vested as to 18,750 shares on each of July 15, 2014 and 2015. The remaining options for 37,500 shares will vest as to 18,750 shares on each of July 16, 2016 and 2017.
- 125,000 stock options were granted on July 15, 2014 and vested as to 31,250 shares on July 15, 2015. The remaining options for 93,750 shares will vest as to 31,250 shares on each of July 15, 2016, 2017 and 2018.

Remarks:

Lynnette C. Fallon, as attorney 08/12/2015
in fact for Douglas A. Lawson

** 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.

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