FORM 4

obligations may continue. See

Instruction 1(b)

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

1. Name and Address of Reporting Person* Low Russell						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								(Check	all app Dire	olicable)	g Person(s) to Issuer 10% Owner Other (specify	
(Last) (First) (Middle) AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 05/15/2019								X	belo	w) ``	below) ngineering	
Street) BEVERLY MA 01915				_ 4. II									p Filing (Check Applicable e Reporting Person re than One Reporting					
(City)	(St		Zip)	Davis				- 4-				£ F) .f :	-:-!!	0	1		
Table I - Non-Deriv 1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				nsaction 2A. Do Executh/Day/Year) if any			. Deemed ecution Date,		ction Instr.	4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			or 5. Am and 5) Secur Benef		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) o	Pric	e	Trans	action(s) 3 and 4)		(11150.4)
Common Stock 05/					05/15/2019						13,183	A	\$0	0.00(1)	4	B,600 ⁽²⁾	D	
Common Stock 09				05/15/	05/15/2019				A		13,183	A	\$0	\$0.00(3)		1,783 ⁽⁴⁾	D	
Common Stock 05/1				05/16/	5/16/2019						618	D(5	⁵⁾ \$1	\$16.95 ⁽⁶⁾		1,165 ⁽⁷⁾	D	
Common Stock 05/17					5/17/2019						760	D(5	5) \$1	6.5(6)	60,405(8)		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)	if any	ution Date, Children		action (Instr.	Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expirati (Month)	ion Da /Day/Y		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri Secti (Inst	rice of vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of employment, 25% of these restricted stock units will vest on each of May 15, 2020, May 15, 2021, May 15, 2022 and May 15, 2023.
- 2. Of the shares held as of May 15, 2019, 38,355 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 3. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of employment, up to 50% of these restricted stock units will vest on each of February 28, 2020 and February 28, 2021, based on performance vesting criteria. Unvested restricted stock units will forfeit on February 28, 2020.
- 4. Of the shares held as of May 15, 2019, 51,538 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 5. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.
- 6. Represents the closing price of the common stock on the date of the tax withholding.
- 7. Of the shares held as of May 16, 2019, 49,506 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 8. Of the shares held as of May 17, 2019, 47,006 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney in fact for Russell J. Low ** Signature of Reporting Person

05/17/2019

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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