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

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

(Last)	central description of the control o					2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ACLS] 3. Date of Earliest Transaction (Month/Day/Year) 05/15/2019 4. If Amendment, Date of Original Filed (Month/Day/Year)								(Chec	S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director				
(City)	(St		Zip)																
		Tabl	le I - No	on-Deriv	ative	Sec	uritie	s Ac	quired	, Dis	sposed o	f, or I	3enef	icially	Own	ed			
Date			2. Transad Date (Month/Da		Execution Da		tion Date, Tr				es Acquired (A) or Of (D) (Instr. 3, 4 a			Secur	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) (D)	Pri	се	Trans	action(s) 3 and 4)		(111341. 4)	
Common Stock				05/15/	5/15/2019				A		17,378	A	. \$	0.00(1)	9'	7,784(2)	D		
Common Stock				05/15/	05/15/2019				A		17,378	A	. \$	\$0.00(3)		5,162 ⁽⁴⁾	D		
Common Stock			05/16/2019					F		2,205	D(5) \$1	\$16.95(6)		2,957 ⁽⁷⁾	D			
Common Stock			05/16/2019					F		1,156	D(5) \$1	\$16.95 ⁽⁶⁾		1,801 ⁽⁷⁾	D			
Common Stock 05			05/17/	/2019				F		919	D(5) \$1		16.5 ⁽⁶⁾	5(6) 110,882(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)	3A. Dee Execution if any (Month/		4. Transa Code (8)		5. Nu of Deriv Secul Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed	6. Date Expirati (Month/	on Da Day/Y		Amount of Securities Underlying Derivative Security (Instr. and 4)		De Sei (In:	Price of rivative curity str. 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, 65,333 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, 82,711 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, 71,281 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, 68,156 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 Kevin J. Brewer

** 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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