FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	VAL					
OMB Number:	3235-0287					
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Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

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*  NETTLES PATRICK H							2. Issuer Name <b>and</b> Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]									all app	nship of Reporting P Il applicable) Director		erson(s) to Issuer	
(Last)		3. Date of Earliest Transaction (Month/Day/Year) 05/17/2017												officer (give title elow)		Other (specify below)				
108 CHE	RRY HILL	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)								
(Street) BEVERLY MA 01915																X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(St	ate) (.	Zip)																	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Trai Date (Monti						r) E	2A. Deemed Execution Date, if any (Month/Day/Year		Transaction Disposed Code (Instr. 5)			ities Acquired (A) d Of (D) (Instr. 3, 4			4 and Secu Bene		cially I Following	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		Transaction(s) (Instr. 3 and 4)				(11341. 4)		
Common	Stock		05/17	5/17/2017				A		3,802	2 A \$0		\$0.0	.00(1) 3		.,360 <sup>(2)</sup>	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)	ative Conversion Date Execution if any			Date, Transaction Code (Ins					6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)					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)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nur of	ount mber ares						

## **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 service as a director, 100% of these restricted stock units will vest on November 17, 2017.

2. Of the shares held on May 17, 2017, 3,802 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

## Remarks:

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for Patrick H. Nettles</u> <u>05/17/2017</u>

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.