FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.	C. 20549
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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)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 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*						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
KEITHLEY JOSEPH P						THE COURT OF THE PARTY OF THE P									Direc	tor		10% O	wner		
(Last)	(Fir	st) (N	Middle)												Office belov	er (give title v)		Other (below)	specify		
C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 05/15/2020															
108 CHERRY HILL DRIVE					-	05/15/2020															
					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)								
(Street)					1									X	Form	filed by On	e Rep	orting Pers	on		
BEVERI	LY M	A 0	1915													filed by Mo		-			
(City)	(Sta	ate) (Z	<u>Z</u> ip)												F 6130) i					
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	Benefi	cially	/ Own	ed					
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day				Execution I			Date, Transacti Code (Ins						, 4 and Secu Bene		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
										v	Amount	(A) (D)	or Pri	се	Transa	Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 05/15/2					2020				A		6,881	A	\$0	.00(1)	0 ⁽¹⁾ 40,189 ⁽²⁾			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	se (Month/Day/Year) if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		of Deriv Secu Acqu (A) o Dispo	r osed) r. 3, 4	Expiration De (Month/Day)		ite	7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		Dei Ser (Ins	Price of rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. 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 service on the Board of Directors, these restricted stock units will vest on November 15, 2020.
- 2. Of the shares held as of May 15, 2020, 6,881 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney 05/15/2020 in fact for Joseph P. Keithley

** 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.