## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	Check this box if no longer subject to
1	Section 16. Form 4 or Form 5
	obligations may continue. See
	Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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			or Section 30(h) of the Investment Company Act of 1940			
1	dress of Reporting		2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ ACLS ]		ationship of Reporting Pe k all applicable) Director Officer (give title	erson(s) to Issuer 10% Owner Other (specify
	(First) (Middle) IS TECHNOLOGIES, INC. Y HILL DRIVE		3. Date of Earliest Transaction (Month/Day/Year) 02/28/2020		below) Executive VP,	below) HR/Legal
(Street) BEVERLY (City)	MA (State)	01915 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line) X	vidual or Joint/Group Fili Form filed by One Re Form filed by More th Person	eporting Person

### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date,		ction Instr.				5. Amount of Securities Beneficially Owned Following Reported	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)		(1150. 4)
Common Stock	02/28/2020		<b>F</b> <sup>(1)</sup>		1,420	D	<b>\$0.00</b> <sup>(2)</sup>	<b>66,751</b> <sup>(3)</sup>	D	
Common Stock	02/28/2020		<b>F</b> <sup>(4)</sup>		2,129	D	<b>\$0.00</b> <sup>(2)</sup>	64,622 <sup>(5)</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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of I		6. Date Exerc Expiration Da (Month/Day/Y	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				

#### Explanation of Responses:

1. This forfeiture of shares for tax withholding purposes relates to the vesting on February 28, 2020 of the remainder of performance based restricted stock units granted to the executive in May 2018. These shares were determined to be earned by the executive pursuant to a resolution of the Axcelis Technologies, Inc. Compensation Committee on February 5, 2019, and half of the earned shares vested on February 28, 2019. As agreed with the executive, the shares issued to the executive on the vested shares were reduced by a number of shares having a value equal to the executive's tax withholding obligation with respect to the vested shares.

2. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units on February 28, 2020.

3. Of the shares beneficially owned by the executive on February 28, 2020 after the vesting of the 2018 performance based restricted stock units, 37,609 shares were issuable on vesting of restricted stock units which are subject to forfeiture. This number includes 5,692 shares issuable under the executive's 2019 performance based restricted stock units, which also vested on February 28, 2020.

4. This forfeiture of shares for tax withholding purposes relates to the vesting on February 28, 2020 of the first half of shares earned under performance based restricted stock units granted to the executive in May 2019. These shares were determined to be earned by the executive pursuant to a resolution of the Axcelis Technologies, Inc. Compensation Committee on February 12, 2020. The second half of the shares earned under this restricted stock unit award will vest on February 28, 2021, assuming continuation of the executive's services. As agreed with the executive, the shares issued to the executive on the vested shares were reduced by a number of shares having a value equal to the executive's tax withholding obligation with respect to the vested shares.

5. Of the shares beneficially owned by the executive on February 28, 2020 after the vesting of shares issued on both the 2018 performance based restricted stock units and the 2019 performance based restricted stock units, 31,917 shares were issuable on vesting of restricted stock units which are subject to forfeiture.

**Remarks:** 

### Lynnette C. Fallon

\*\* Signature of Reporting Person

03/02/2020

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.