FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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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

1. Name and Address of Reporting Person* Lawson Douglas A. (Last) (First) (Middle)					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title below) Other (specify below)				Owner (specify
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE				05	3. Date of Earliest Transaction (Month/Day/Year) 05/15/2022								EVP, Corporate Mktg & Strategy				
(Street) BEVERI	LY M.	A 0	1915	_ 4.	. If Amendment, Date of Original Filed (Month/Day/Year)							3. Indiv ₋ine) X	'				
(City)	(St		Zip)														
			I - Non-Deri		_		Acc	_	d, Di		-					l	I
1. Title of Security (Instr. 3) 2. Trans Date (Month/					Execution Date,				s Acquired (A) or f (D) (Instr. 3, 4 and 5			5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) or (D)	Price	Report Transa (Instr. 3		ed ction(s) 3 and 4)		(Instr. 4)	
Common	Stock		05/15	/2022				F		1,263	D ⁽¹⁾	\$56.	38(2)	32	.,072(3)	D	
Common	Stock		05/15	/2022				F		1,208	D (1)	\$56.	38(2)	30	,864(4)	D	
Common	Stock		05/16	/2022				F		842	D (1)	\$56.	38(2)	30,022(5)		D	
Common	Stock		05/16	/2022				A		4,832	A	\$0.0	00(6)	6) 34,854 ⁽⁷⁾ D			
Common	Stock		05/16	/2022				A		4,832	A	\$0.0)0(8)	39	,686 ⁽⁹⁾	D	
Common	Stock		05/17	/2022				F		744	D (1)	\$60.	56 ⁽²⁾	38,	,942(10)	D	
		Tal	ole II - Deriv (e.g.,							oosed of, convertib				Owne	d		
Derivative Conversion Date Security or Exercise (Month/Day/Year) if all		3A. Deemed Execution Date if any (Month/Day/Yea	Cod	nsaction le (Instr.			Expir	te Exer ation D th/Day/		7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		Der Sec (Ins	rice of ivative urity tr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
					- 1							Amount	1		I		1

- 1. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.
- 2. Represents the closing price of the common stock on the date of the tax withholding.
- 3. Of the shares held after this first tax withholding forfeiture (and related vesting) on May 15, 2022, 24,644 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 4. Of the shares held after this second tax withholding forfeiture (and related vesting) on May 15, 2022, 21,921 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture
- 5. Of the shares held after this tax withholding forfeiture (and related vesting) on May 16, 2022, 20,023 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 6. 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 16, 2023, May 16, 2024, May 16, 2025 and May 16, 2026.
- 7. Of the shares held after this first grant on May 16, 2022, 24,855 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to
- 8. In this grant under the Company's 2012 Equity Incentive Plan, the executive may earn shares of common stock, ranging from zero to 150% of the granted units. The shares are earned based on the achievement of 2022 performance goals. Assuming continuation of employment,50% of the earned shares will vest on each of February 28, 2023 and February 28, 2024. Unearned restricted stock units will forfeit on February 28, 2023.
- 9. Of the shares held after this second grant on May 16, 2022, 29,687 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject
- 10. Of the shares held after this tax withholding forfeiture (and related vesting) on May 17, 2022, 28,011 shares 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 05/18/2022 in fact for Douglas A. Lawson

** Signature of Reporting Person

Number

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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