| SEC Form 4 | |
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL
OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

| 1. Name and Address of Reporting Person* BREWER KEVIN J | | | 2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ACLS] | | ationship of Reporting Person(s) to Issuer k all applicable) Director 10% Owner Officer (give title Other (specify below) below) | | |
|---|------------------------|----------|--|-------|--|-----------------------|--|
| (Last) | (First) IS TECHNOLO | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) | 1 | EVP & Chief Fina | ncial Officer | |
| | | | 05/15/2022 | 1 | | | |
| 108 CHERRY | Y HILL DRIVE | | | | | | |
| | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | vidual or Joint/Group Fili | ing (Check Applicable | |
| (Street) | | | | Line) | Form filed by One De | norting Deres | |
| BEVERLY | MA | 01915 | | X | Form filed by One Re | | |
| , | | | | | Form filed by More th Person | an One Reporting | |
| (City) | (State) | (Zip) | | 1 | | | |

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

| - | | | | , | • | , - | | | | |
|---------------------------------|--|---|---|---|------------------------------|-------------------------|-------------------------------|---|---|---|
| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | | 4. Securities Disposed Of | | | 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 | Reported Transaction(s) (Instr. 3 and 4) | | (Instr. 4) |
| Common Stock | 05/15/2022 | | F | | 1,927 | D ⁽¹⁾ | \$56.38(2) | 56,198(3) | D | |
| Common Stock | 05/15/2022 | | F | | 1,844 | D ⁽¹⁾ | \$56.38(2) | 54,354 ⁽⁴⁾ | D | |
| Common Stock | 05/16/2022 | | F | | 1,743 | D ⁽¹⁾ | \$56.38(2) | 52,611 ⁽⁵⁾ | D | |
| Common Stock | 05/16/2022 | | A | | 6,303 | Α | \$ 0.00 ⁽⁶⁾ | 58,914 ⁽⁷⁾ | D | |
| Common Stock | 05/16/2022 | | A | | 6,303 | A | \$0.00 ⁽⁸⁾ | 65,217 ⁽⁹⁾ | D | |
| Common Stock | 05/17/2022 | | F | | 970 | D ⁽¹⁾ | \$60.56(2) | 64,247(10) | D | |

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| | (3, p,,, | | | | | | | | | | | | | | |
|---|---|--|---|------------------------------|---|---|-----|--|---|-------|---|--|--|--|--|
| 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) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 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. 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, 36,045 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, 31,888 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, 27,958 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, 34,261 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

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, 40,564 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

10. Of the shares held after this tax withholding forfeiture (and related vesting) on May 17, 2022, 38,378 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 in fact for Kevin J. Brewer Diversion of the second se

** 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.