FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| l | OMB APPROVAL | | | | | | | | | | | |
|---|------------------------|-----------|--|--|--|--|--|--|--|--|--|--|
| | OMB Number: | 3235-0287 | | | | | | | | | | |
| l | Estimated average burd | en | | | | | | | | | | |

0.5

hours per response:

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

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* Bintz William J | | | | | | | 2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS] | | | | | | | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | | | |
|---|---|--------|-------------------------------------|---|------------------|---|---|---|--|---|---------------------|---|-----------------|--|---|---|---|---|--|--|
| Bintz v | <u>/illiam J</u> | | TEXACELIS TECHNOLOGIES HIG [ACES] | | | | | | | | 1 | | Director | 109 | Owner | | | | | |
| | | | | | | Date of Earliest Transaction (Month/Day/Year) | | | | | | | | \dashv | | Officer (give title below) | Oth belo | er (specify w) | | |
| (Last) (First) (Middle) | | | | | | | 09/17/2013 | | | | | | | | | EVP, Prod. De | | , l | | |
| 108 CHE | RRY HILL | | 35,27,2025 | | | | | | | | | | L v 1, 110d. DC | .v., Liig. & i | IKIS | | | | | |
| (Charan) | | | | | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | 6. Individual or Joint/Group Filing (Check Applicable Line) | | | | | |
| (Street) BEVERI | LY MA 01915 | | | | | | | | | | | | | | X Form filed by One Reporting Person | | | | | |
| | J1 WH1 01515 | | | | . | | | | | | | | | | Form filed by More than One Reporting | | | | | |
| (City) (State) (Zip) | | | | | | | | | | | | | | Person | | | | | | |
| | | Tabl | e I - Nor | n-Deriv | ative | Se | curitie | s Ac | quired, | Dis | osed o | f, or | Bene | eficia | ally O | wned | | | | |
| 1. Title of Security (Instr. 3) 2. Transac Date (Month/Date) | | | | | | ar) E | xecutio any | Deemed ecution Date, ny onth/Day/Year) | | 3. Transaction Code (Instr. 8) 4. Securi Disposed 5) | | ties Acquired (A) d Of (D) (Instr. 3, 4 | | (A) or 3, 4 ar | nd S B O | . Amount of ecurities eneficially wned Following eported | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | | |
| | | | | | | | Code | v | Amount | (A (E |) or)) | Price | T | ransaction(s) nstr. 3 and 4) | | (1130.4) | | | | |
| Common | Stock | 7/2013 | 2013 | | S ⁽¹⁾ | | 3,136 | 5 | D | \$2.25 | | 78,085 ⁽²⁾ | D | | | | | | | |
| | | Та | ble II - D | | | | | • | | | sed of, onvertib | | | | / Owi | ned | | | | |
| 1. Title of Derivative Security (Instr. 3) | ive Conversion Date Execution or Exercise (Month/Day/Year) if any | | Date, | 4. Transaction Code (Instr. 8) | | 5. Nu of Deriv Secu Acqu (A) o Dispo of (D) (Instr and 5 | ative rities ired osed | Expiration (Month/D | Date Exercisable and Expiration Date Month/Day/Year) Date Expiration Date | | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares | | 8. Pric Deriva Securi (Instr. | tive derivative ty Securities | Ownersh Form: Direct (D) or Indirect (I) (Instr. | Beneficial Ownership (Instr. 4) | | | |

Explanation of Responses:

- 1. The sales reported on this Form are pursuant to a prior election by the executive officer to sell shares issued on the vesting of restricted stock units in order to generate funds to pay to the Company to cover the executive's tax liability arising from the vesting event and related commissions. The proceeds of this sale will be paid to the Company and the broker, accordingly.
- 2. Of the shares held as of September 17, 2013, 9,449 were issuable on vesting of restricted stock units granted the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

<u>Lynnette C. Fallon, as attorney</u> in fact for William Bintz

09/17/2013

** 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.