

| OMB APPROVAL | |
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* <u>Pietri Antonio J</u> _____ (Last) (First) (Middle) <u>ASPEN TECHNOLOGY, INC.</u> <u>200 WHEELER ROAD</u> _____ (Street) <u>BURLINGTON MA 01803</u> _____ (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>ASPEN TECHNOLOGY INC /DE/ [AZPN]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>EVP, Field Operations</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>04/28/2010</u> | |
| 4. If Amendment, Date of Original Filed (Month/Day/Year) | | |

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 Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 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 | | | |
| Common Stock | 04/28/2010 | | M | | 625 ⁽¹⁾ | A | \$0 | 112,860 | D | |
| Common Stock ⁽⁷⁾ | 04/28/2010 | | F | | 199 | D | \$11.45 | 112,661 | 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. Transaction Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 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 | | | | | |
| Restricted Stock Units ⁽²⁾ | \$0 ⁽³⁾ | 04/28/2010 | | M | | 625 | | (5) | (6) | Common Stock | 625 | 625 | D | |

Explanation of Responses:

1. Restricted Stock Units do not have an exercise price.
2. Restricted Stock Units do not have an exercise price.
3. Restricted Stock Units do not have an exercise price.
4. Restricted Stock Units do not have an exercise price.
5. The Restricted Stock Unit vested as to 25% on achievement of specified performance goals in the fiscal year ending June 30, 2007 and the balance vests in 12 equal quarterly installments thereafter.
6. The Restricted Stock Unit vested as to 25% on achievement of specified performance goals in the fiscal year ending June 30, 2007 and the balance vests in 12 equal quarterly installments thereafter.
7. Shares withheld by Registrant to satisfy statutory tax withholding requirements on vesting of Restricted Stock Units and distribution of stock.

/s/F.G. Hammond, Attorney-In-Fact 04/30/2010

** 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.