

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): **January 28, 2005**

ASPEN TECHNOLOGY, INC.

(Exact Name of Registrant as Specified in Charter)

Delaware
(State or Other Jurisdiction of Incorporation)

0-24786
(Commission File Number)

04-2739697
(IRS Employer Identification No.)

Ten Canal Park, Cambridge MA
(Address of Principal Executive Offices)

02141
(Zip Code)

Registrant's telephone number, including area code: **(617) 949-1000**

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 1.01. Entry into a Material Definitive Agreement

On January 28, 2005, we, together with our subsidiary AspenTech, Inc., entered into amendments to our loan and security agreement and our Export-Import Bank loan and security agreement, each dated as of January 30, 2003, with Silicon Valley Bank. The amendments extend the maturity date under each of these agreements from January 29, 2005 to April 1, 2005 and establish monthly tangible net worth covenants for the extension period. In addition, these amendments waive any defaults in the tangible net worth covenants as of December 31, 2004.

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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

ASPEN TECHNOLOGY, INC.

Date: February 1, 2005

By: /s/ Charles F. Kane
Charles F. Kane
Senior Vice President – Finance and
Chief Financial Officer

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