AS FILED WITH THE SECURITIES AND EXCHANGE COMMISSION ON FEBRUARY 17, 1998

Registration No. 333-39431

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

POST-EFFECTIVE AMENDMENT NO. 1

TO FORM S-3 REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

ASPEN TECHNOLOGY, INC. (Exact name of registrant as specified in its charter)

MASSACHUSETTS (State or other jurisdiction of incorporation or organization)

04-2739697 (I.R.S. employer identification number)

TEN CANAL PARK CAMBRIDGE, MASSACHUSETTS 02141 (617) 577-0100

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

LAWRENCE B. EVANS Chairman of the Board and Chief Executive Officer ASPEN TECHNOLOGY, INC. Ten Canal Park

Cambridge, Massachusetts 02141 (617) 577-0100

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

STEPHEN J. DOYLE, ESQ. Vice President, General Counsel, Chief Legal Officer and Clerk ASPEN TECHNOLOGY, INC. Ten Canal Park Cambridge, Massachusetts 02141

MARK L. JOHNSON, ESQ. FOLEY, HOAG & ELIOT LLP One Post Office Square Boston, Massachusetts 02109

The Registrant hereby withdraws from registration a total of 166,359 shares of its common stock, \$.10 par value, registered pursuant to its Registration Statement on Form S-3 (registration number 333-39431). The shares being withdrawn were registered for sale from time to time by certain selling stockholders (as named in such Registration Statement) and have not been sold as of the time of filing of this Post-Effective Amendment No. 1.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant has duly caused this Post-Effective Amendment No. 1 to Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Cambridge, Massachusetts, on this thirteenth day of February, 1998.

ASPEN TECHNOLOGY, INC.

By: /s/ Stephen J. Doyle

Stephen J. Doyle

Vice President, General Counsel, Chief Legal

Officer and Clerk

Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment No. 1 to Registration Statement has been signed on this thirteenth day of February, 1998 by the following persons in the capacities indicated.

SIGNATURE	TITLE
*	Chairman of the Board and Chief Executive Officer
LAWRENCE B. EVANS	(Principal Executive Officer)
* MARY A. PALERMO	Executive Vice President, Finance and Chief Financial Officer (Principal Accounting Officer and Principal Financial Officer)
*	Director
JOSEPH F. BOSTON	
*	Director
GRESHAM T. BREBACH, JR.	
*	Director
DOUGLAS R. BROWN	
*	Director
JOAN C. MCARDLE	
*	Director
ALISON ROSS	
*By /s/ Stephen J. Doyle	
STEPHEN J. DOYLE Attorney-in-fact	