AS FILED WITH THE SECURITIES AND EXCHANGE COMMISSION ON JANUARY 30, 1998

Registration No. 333-20647

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SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

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POST-EFFECTIVE AMENDMENT NO. 1
TO
FORM S-3
REGISTRATION STATEMENT
UNDER

THE SECURITIES ACT OF 1933

 $\label{eq:aspen} {\tt ASPEN\ TECHNOLOGY,\ INC.}$  (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)

Ten Canal Park

Cambridge, Massachusetts 02141

(617) 577-0100

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

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Copies to:

STEPHEN J. DOYLE, ESQ.
Vice President, General Counsel 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

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The Registrant hereby withdraws from registration a total of 156,297 shares of its common stock, \$.10 par value, registered pursuant to its Registration Statement on Form S-3 (registration number 333-20647). Such Registration Statement initially covered a total of 246,186 shares of common stock (after giving effect to a two-for-one stock split by way of a stock dividend to persons who were holders of record of common stock as of February 14, 1997). The shares being withdrawn were registered for sale from time to time by certain selling stockholders (as named in such Registration Statement) and have not been sold as of the time of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 thirtieth day of January, 1998.

ASPEN TECHNOLOGY, INC.

By: /s/ Stephen J. Doyle

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Stephen J. Doyle

Vice President, General Counsel 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 thirtieth day of January, 1998 by the following persons in the capacities indicated.

SIGNATURE	TITLE 
* LAWRENCE B. EVANS	Chairman of the Board of Directors and Chief Executive Officer (Principal Executive Officer)
* MARY A. PALERMO	Executive Vice President (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