

Prospectus Supplement No. 1
To Prospectus Dated December 10, 1998

\$86,250,000
Aspen Technology, Inc.
5-1/4% Convertible Subordinated Debentures due June 15, 2005

This Prospectus Supplement supplements the information we provided in our December 10, 1998 Prospectus relating to our 5-1/4% Convertible Subordinated Debentures due June 15, 2005 and the shares of our common stock that we must issue upon conversion of those Debentures. This Prospectus Supplement is not complete without the Prospectus, and we have not authorized anyone to deliver or use this Prospectus Supplement without the Prospectus.

In this Prospectus Supplement, we use some capitalized terms that we defined in the Prospectus. You should read the Prospectus to understand those terms. Unless we indicate otherwise, the information in this Prospectus Supplement is as of January 21, 1999.

We are providing this Prospectus Supplement to add the following information to the table in the Prospectus under the caption "Selling Securityholders":

Selling Securityholder	Principal Amount of Debentures Beneficially Owned Prior to the Offering		Amount of Debentures Offered(2)	Shares of Common Stock Beneficially Owned Prior to the Offering		Shares of Common Stock Offered(3)	Shares of Common Stock Beneficially Owned After the Offering	
	Number	Percent(1)		Number(3)	Percent(4)		Number	Percent(4)
Goldman, Sachs & Co. Reserve Convertible Securities Fund	\$1,539,000 650,000	1.8% *	\$1,539,000 650,000	29,054 12,271	* *	29,054 12,271	-- --	-- --
McMahan Securities Company, L.P.	48,000	*	48,000	906	*	906	--	--

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* Less than one percent.

- (1) For purposes of this Prospectus Supplement only, we have calculated this percentage on the basis of \$86,250,000 aggregate principal amount of Debentures outstanding on January 21, 1999.
- (2) Each Selling Securityholder has indicated that it intends to offer all of the Debentures that it owns. As a result, no Debentures will be owned after the offering.
- (3) For purposes of this Prospectus Supplement only, we have calculated this number using the conversion rate described on the front cover page of the Prospectus.
- (4) For purposes of this Prospectus Supplement only, we have calculated this percentage on the basis of 24,926,493 shares of common stock outstanding on January 21, 1999.

The date of this Prospectus Supplement is January 25, 1999.