ASPEN TECHNOLOGY INC /DE/ Form SC 13D/A September 30, 2010

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549 SCHEDULE 13D

(Rule 13d-101)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULE 13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(a)

(Amendment No. <u>6</u>)¹ Aspen Technology, Inc.

(Name of issuer) Common Stock, par value \$0.10

(Title of class of securities) 045327103

(CUSIP number)

Jarlyth H. Gibson, Compliance Officer 617-951-9493 C/o Advent International Corporation, 75 State Street, 29th Floor Boston, MA 02109

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications) September 28, 2010

(Date of event which requires filing of this statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box :.o

Note. Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. *See* Rule 13d-7(b) for other parties to whom copies are to be sent.

(Continued on following pages)

¹ The remainder of this cover page shall be filled out for a reporting person s initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, *see* the *Notes*).

CUSIP No. 045327103 Schedule 13D 21 Page 2 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 **Advent International Corporation** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 8,812,336 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None SOLE DISPOSITIVE POWER **EACH**

	E	Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A			
REPORTING PERSON		8,812,336			
WI	ГН 10	SHARED DISPOSITIVE POWER			
		None			
11	AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	8,812,336				
12	СНЕСК ВО	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	o				
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	9.49%				
14	TYPE OF R	EPORTING PERSON*			
	CO, IA				

CUSIP No. 045327103 Schedule 13D 21 Page 3 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Advent International Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 8,649,037 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None SOLE DISPOSITIVE POWER **EACH**

	I	Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A			
REPORTING PERSON		8,649,037			
WI	ГН 10	SHARED DISPOSITIVE POWER			
		None			
11	AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	8,649,037				
12	СНЕСК ВО	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	o				
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	9.31%				
14	TYPE OF R	EPORTING PERSON*			
	PN				

CUSIP No. 045327103 Schedule 13D 21 Page of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Advent Energy II Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 581,621 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None SOLE DISPOSITIVE POWER **EACH**

		Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A		
REPORTING PERSON		581,621		
WI	ГН 10	SHARED DISPOSITIVE POWER		
		None		
11	AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	581,621			
12	СНЕСК ВС	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	o			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
-	0.63%			
14	TYPE OF R	EPORTING PERSON*		
	PN			

CUSIP No. 045327103 Schedule 13D 21 Page 5 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Advent PGGM Global Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 123,365 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None SOLE DISPOSITIVE POWER **EACH**

		Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A		
REPORTING PERSON		123,365		
WI	ГН 10	SHARED DISPOSITIVE POWER		
		None		
11	AGGREGA	ATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	123,365			
12	СНЕСК В	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	o			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
13	0.13%			
14	TYPE OF	REPORTING PERSON*		
	PN			

CUSIP No. 045327103 Schedule 13D 21 Page of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Digital Media & Communications III Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 569,617 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

	E	Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A		
REPOR PERS		569,617		
WIT	ТН 10	SHARED DISPOSITIVE POWER		
		None		
11	AGGREGAT	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	569,617			
12	CHECK BO	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	0			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.61%			
14	TYPE OF RI	EPORTING PERSON*		

PN

CUSIP No. Page 045327103 Schedule 13D 21 7 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Digital Media & Communications III-A Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 282,007 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

	1	Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A			
REPORTING PERSON		282,007			
WI	ГН 10	SHARED DISPOSITIVE POWER			
		None			
11	AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	282,007				
12	СНЕСК ВО	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	o				
13	PERCENT (OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.30%				
14	TYPE OF R	EPORTING PERSON*			
	PN				

CUSIP No. 045327103 Schedule 13D 21 Page 8 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Digital Media & Communications III-B Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 NUMBER OF 70,485 **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None SOLE DISPOSITIVE POWER **EACH**

		Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A			
REPOR PERS		70,485			
WI	ГН 10	SHARED DISPOSITIVE POWER			
		None			
11	AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	70,485				
12	СНЕСК ВС	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	0				
13	PERCENT (OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
13	0.08%				
14	TYPE OF R	EPORTING PERSON*			
	PN				

CUSIP No. 045327103 Schedule 13D 21 Page of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Digital Media & Communications III-C Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 1,128,000 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

	E	Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A		
REPOR PERS		1,128,000		
WIT	TH 10	SHARED DISPOSITIVE POWER		
		None		
11	AGGREGA'	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	1,128,000			
12	СНЕСК ВО	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	o			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	1.21%			
14	TYPE OF RI	EPORTING PERSON*		
14				

PN

CUSIP No. 045327103 Schedule 13D 21 Page 10 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Digital Media & Communications III-D C.V. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Netherlands **SOLE VOTING POWER** 7 211,489 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

		Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A		
REPORTING PERSON		211,489		
WI	ГН 10	SHARED DISPOSITIVE POWER		
		None		
11	AGGREGA	ATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	211,489			
12	CHECK B	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	0			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.23%			
14	TYPE OF	REPORTING PERSON*		
	PN			

CUSIP No. 045327103 Schedule 13D 21 Page 11 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Digital Media & Communications III-E C.V. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Netherlands **SOLE VOTING POWER** 7 141,004 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

		Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A		
REPORTING PERSON		141,004		
WI	ГН 10	SHARED DISPOSITIVE POWER		
		None		
11	AGGREGA	ATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	141,004			
12	СНЕСК ВС	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	0			
13	PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	0.15%			
14	TYPE OF F	REPORTING PERSON*		
	PN			

CUSIP No. 045327103 Schedule 13D 21 Page 12 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Global Private Equity III Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 1,233,729 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

		Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A		
REPORTING PERSON		1,233,729		
WI	ГН 1 0	SHARED DISPOSITIVE POWER		
		None		
11	AGGREG	ATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	1,233,729			
12	СНЕСК В	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	0			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	1.33%			
14	TYPE OF	REPORTING PERSON*		
	PN			

CUSIP No. 045327103 Schedule 13D 21 Page 13 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Global Private Equity IV Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 4,307,720 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

		Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A		
REPORTING PERSON		4,307,720		
WI	ГН 10	SHARED DISPOSITIVE POWER		
		None		
11	AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	4,307,720			
12	СНЕСК ВС	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	0			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
10	4.64%			
14	TYPE OF R	EPORTING PERSON*		
	PN			

CUSIP No. 045327103 Schedule 13D 21 Page 14 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Advent Partners (NA) GPE-III Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 3,137 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A					
REPORTING PERSON		3,137			
WI	ГН 10	SHARED DISPOSITIVE POWER			
		None			
11	AGGREGA?	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	3,137				
12	СНЕСК ВО	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	0				
13	PERCENT (OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.00%				
14	TYPE OF R	EPORTING PERSON*			
	PN				

CUSIP No. 045327103 Schedule 13D 21 Page 15 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Advent Partners DMC III Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 32,689 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A				
REPOR PERS		32,689		
WI	ГН 10	SHARED DISPOSITIVE POWER		
		None		
11	AGGREGAT	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	32,689			
12	СНЕСК ВО	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	o			
13	PERCENT C	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	0.04%			
14	TYPE OF RI	EPORTING PERSON*		
	PN			

CUSIP No. 045327103 Schedule 13D 21 Page 16 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Advent Partners GPE-III Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 10,563 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A					
REPORTING PERSON		10,563			
WI	ГН 10	SHARED DISPOSITIVE POWER			
		None			
11	AGGREGA'	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	10,563				
12	СНЕСК ВО	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	0				
13	PERCENT C	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.01%				
14	TYPE OF RI	EPORTING PERSON*			
	PN				

CUSIP No. 045327103 Schedule 13D 21 Page 17 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Advent Partners GPE-IV Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 54,523 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A						
REPORTING						
PERSON		54,523				
WI	ГН 10	SHARED DISPOSITIVE POWER				
	10	None				
11	AGGREGAT	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	54,523					
12	CHECK BO	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
	0					
13	PERCENT C	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	0.06%					
14	TYPE OF RI	EPORTING PERSON*				
	PN					

CUSIP No. 045327103 Schedule 13D 21 Page 18 of NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY) 1 Advent Partners II Limited Partnership CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* 2 (a) þ (b) o SEC USE ONLY 3 SOURCE OF FUNDS 4 WC CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) 5 o CITIZENSHIP OR PLACE OF ORGANIZATION 6 Delaware **SOLE VOTING POWER** 7 62,387 NUMBER OF **SHARES** SHARED VOTING POWER BENEFICIALLY 8 OWNED BY None **EACH** SOLE DISPOSITIVE POWER

	E	Edgar Filing: ASPEN TECHNOLOGY INC /DE/ - Form SC 13D/A			
REPORTING PERSON		62,387			
WI	ГН 10	SHARED DISPOSITIVE POWER			
		None			
11	AGGREGAT	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	62,387				
12	СНЕСК ВО	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
	0				
13	PERCENT C	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.07%				
14	TYPE OF RI	EPORTING PERSON*			
	PN				

CUSIP No. 045327103 Schedule 13D Page 19 of 21 Item 1. Security and Issuer

This statement on Amendment No. 6 to Schedule 13D (Amendment No. 6) relates to the Reporting Persons beneficial ownership interest in the Common Stock, par value \$0.10 per share, of Aspen Technology, Inc., a Delaware corporation (the Corporation). The address of the principal executive office of the Corporation is 200 Wheeler Road, Burlington, MA 01803. This Amendment No. 6 amends the initial statement on Schedule 13D filed with the Securities and Exchange Commission (the Commission) on August 22, 2003, as amended by Amendment No. 1 thereto filed with the Commission on June 6, 2006, Amendment No. 2 thereto filed with the Commission on July 26, 2006, Amendment No. 3 thereto filed with the Commission on December 15, 2006, Amendment No. 4 thereto filed with the Commission on December 22, 2006 and Amendment No. 5 thereto filed with the Commission on February 14, 2008 (as so amended, the Schedule 13D). This Amendment No. 6 is being filed by the Reporting Persons to amend Item 5. Terms defined in the Schedule 13D are used herein as so defined.

<u>Item 5</u>. <u>Interest in Securities of the Issuer</u>.

Item 5 of the Schedule 13D is hereby amended as set forth in the following table which reports the aggregate number and percentage of the Common Stock beneficially owned by each Reporting Person named in Item 2 of the Schedule 13D (based upon 92,892,014 shares of Common Stock outstanding as of September 1, 2010). The table has been amended to reflect sales made on behalf of each Reporting Person since Amendment No. 5 was filed. On September 28, 2010, the Reporting Persons listed below completed the sale of an aggregate of 20,700,000 shares of Commons Stock in an underwritten offering, at a price per share to the underwriters of \$8.569. The aggregate number and percentage of the Common Stock beneficially owned by each Reporting Person is calculated in accordance with Rule 13d-3.

			Number	
			of	Number of
	Number of	Percentage of	Shares	Shares
	Shares	Common	Acquired during	Disposed of
	Beneficially	Stock	Past	during Past
	Owned	Outstanding	60 Days	60 Days
Reporting Person				
Advent International Corporation (1),(2)	8,812,336	9.49%	0	20,700,000
Advent International Limited Partnership (1)	8,649,037	9.31%	0	20,316,398
Advent Energy II Limited Partnership (1)	581,621	0.63%	0	1,366,214
Advent PGGM Global Limited Partnership (1)	123,365	0.13%	0	289,786
Digital Media & Communications III Limited				
Partnership (1)	569,617	0.61%	0	1,338,021
Digital Media & Communications III-A				
Limited Partnership (1)	282,007	0.30%	0	662,428
Digital Media & Communications III-B Limited				
Partnership (1)	70,485	0.08%	0	165,572
Digital Media & Communications III-C Limited				
Partnership (1)	1,128,000	1.21%	0	2,649,641
Digital Media & Communications III-D C.V.				
(1)	211,489	0.23%	0	496,786
Digital Media & Communications III-E C.V.				
(1)	141,004	0.15%	0	331,214
	1,233,729	1.33%	0	2,897,999
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Global Private Equity III Limited Partnership (1) Global Private Equity IV Limited Partnership (1)	4,307,720	4.64%	0	10,118,737
Advent Partners (NA) GPE-III Limited Partnership (2) Advent Partners DMC III Limited Partnership	3,137	0.00%	0	7,376
(2)	32,689	0.04%	0	76,789
Advent Partners GPE-III Limited Partnership (2)	10,563	0.01%	0	24,815

CUSIP No.	045327103	Schedule 13D		Page	20	of	21
				Number			
				of		Numbe	r of
		Number of	Percentage of	Shares		Shares	
		Shares	Common	Acquired during		Dispose	ed of
		Beneficially	Stock	Past		during l	Past
		Owned	Outstanding	60 Days		60 Day	S
Advent Partners	GPE-IV Limited Partnership		_				
(2)	-	54,523	0.06%	0		1	28,074
Advent Partners	s II Limited Partnership (2)	62,387	0.07%	0		1	46,548
Total Group	•	8,812,336	9.49%	0		20,7	00,000

(1) Advent International Corporation (AIC) is the General Partner of Advent International Limited Partnership (AILP) which in turn is the General Partner of the indicated Reporting Persons. As such, AIC has the sole power to vote and dispose of the securities owned by the indicated Reporting Persons. The beneficial ownership of AIC and AILP derive from such power.

(2) AIC is the General Partner of the indicated Reporting

Person. As such, AIC has the sole power to vote and dispose of the securities owned by the indicated reporting persons. The beneficial ownership of AIC derives from such power.

(b) Each of the Reporting Persons listed in the table set forth above has sole voting and dispositive power over the Common Stock beneficially owned by it as indicated above.

CUSIP No. 045327103

Schedule 13D SIGNATURE

Page 21 of 21

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

September 30, 2010

Global Private Equity IV Limited Partnership

Global Private Equity III Limited Partnership

Advent PGGM Global Limited Partnership

Digital Media & Communications III Limited Partnership

Digital Media & Communications III-A Limited Partnership

Digital Media & Communications III-B Limited Partnership

Digital Media & Communications III-C Limited Partnership

Digital Media & Communications III-D C.V.

Digital Media & Communications III-E C.V.

Advent Energy II Limited Partnership

By: Advent International Limited Partnership,

General Partner

By: Advent International Corporation,

General Partner

By: Jarlyth H. Gibson, Compliance Officer*

Advent International Limited Partnership

Advent Partners II Limited Partnership

Advent Partners GPE-IV Limited Partnership

Advent Partners GPE-III Limited Partnership

Advent Partners (NA) GPE-III Limited Partnership

Advent Partners DMC-III Limited Partnership

By: Advent International Corporation,

General Partner

By: Jarlyth H. Gibson, Compliance Officer *

ADVENT INTERNATIONAL CORPORATION

By: Jarlyth H. Gibson, Compliance Officer *

*For all of the above:

/s/ Jarlyth H. Gibson

Jarlyth H. Gibson, Compliance Officer