SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Schedule 13G

	Delaware			
4	CITIZENSHIP OR PLACE OF ORGANIZA	ATION		
3	SEC USE ONLY			
2	CHECK THE APPROPRIATE BOX IF A M	MEMBER OF A GROUP*	(a)	(b) X
1	NAME OF REPORTING SS OR I.R.S. IDENTIFICATION NO. U.S. Venture Partners V Tax ID Number:	/III, L.P. ("USVP VIII")		
	CUSIP NO. 04963C209	13 G		Page 2 of 22
	Page 1 of 22 P Exhibit Index Containe			
Notes).	(Continued on follow	,	or the	
The informulation be "find 1934 ("Ac	es provided in a prior cover page. mation required on the remainder of led" for the purpose of Section 18 o t") or otherwise subject to the lia l be subject to all other provisi	of the Securities Exchange A abilities of that section of th	Act of ne Act	
initial fafor any	ainder of this cover page shall be f iling on this form with respect to t subsequent amendment containing	the subject class of securities	s, and	
	[X] Rule 13d-1(d)			
	[] Rule 13d-1(b) [] Rule 13d-1(c)			
is filed:	[] Rule 13d-1(b)			
	appropriate box to designate the r	rule pursuant to which this Sch	nedule	
	(Date of Event Which Requires Fi			
	December 31,	2005		
	(CUSIP Numbe			
	04963C209	·		
	Common Stoc (Title of Class of S			
	(Name of Issu	uer)		
	AtriCure, In			
	(Amendment No	FILED PURSUANT TO 13d-2 (b)		

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY EACH REPORTING
PERSON

SOLE VOTING POWER 2,286,924 shares, of which 2,194,151 are outstanding shares and 92,773 are issuable upon the conversion of warrants; except that Presidio Management Group VIII, L.L.C. ("PMG VIII"), the general partner of USVP VIII, may be deemed to have sole power to vote these shares, and Timothy Connors ("Connors"), Irwin Federman ("Federman"), Winston Fu

	WITH	("Fu"), Steven M. Krausz ("Krausz"), David Liddle Jonathan D. Root ("Root"), Christopher Rust ("Rust Young ("Young") the managing members of PMG VIII, have shared power to vote these shares.	") and Philip M.
	6	SHARED VOTING POWER See response to row 5.	
	7	SOLE DISPOSITIVE POWER 2,286,924 shares, of which 2,194,151 are outstandi are issuable upon the conversion of warrants; exc the general partner of USVP VIII, may be deemed to to dispose of these shares, and Connors, Federman, Root, Rust and Young, the managing members of PMG to have shared power to dispose of these shares.	ept that PMG VIII, have the sole power Fu, Krausz, Liddle,
	8	SHARED DISPOSITIVE POWER See response to row 7.	
9	AGGREGATE AMOUNT BENEFICIALLY ON REPORTING PERSON	wned by each	2,286,924
10	CHECK BOX IF THE AGGREGATE AMOUNT EXCLUDES CERTAIN SHARES*	NT IN ROW (9)	
11	PERCENT OF CLASS REPRESENTED BY	AMOUNT IN ROW 9	19.0%
12	TYPE OF REPORTING PERSON*		PN

	CUSIP NO. 04963C209		13 G		Page 3 of 22
1	NAME OF REPORTING SS OR I.R.S. IDENTIFI USVP VIII AF Tax ID Numbe	filiates	0. OF ABOVE PERSON Fund, L.P. ("USVP VIII AF")		
2	CHECK THE APPROPRIATE	BOX IF	A MEMBER OF A GROUP*	(a)	(b) X
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE	OF ORGAN	IZATION		
	Delaware				
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 17,653 shares, of which 16,970 are upon the conversion of warrants; e partner of USVP VIII AF, may be de these shares, and Connors, Federma and Young, the managing members of shared power to vote these shares.	xcept that Pleased to have notes and to have notes and the second to the	4G VIII, the general sole power to vote z, Liddle, Root, Rust
		6	SHARED VOTING POWER See response to row 5.		
		7	SOLE DISPOSITIVE POWER 17,653 shares, of which 16,970 are upon the conversion of warrants; e partner of USVP VIII AF, may be de of these shares, and Connors, Fede and Young, the managing members of shared power to dispose of these s	xcept that Pi emed to have rman, Fu, Kra PMG VIII, ma	4G VIII, the general sole power to dispose ausz, Liddle, Root, Rust
		8	SHARED DISPOSITIVE POWER See response to row 7.		
9	AGGREGATE AMOUNT BENE REPORTING PERSON	FICIALLY	OWNED BY EACH		17,653
10	CHECK BOX IF THE AGGR EXCLUDES CERTAIN SHAR		OUNT IN ROW (9)		
11	PERCENT OF CLASS REPR	ESENTED	BY AMOUNT IN ROW 9		0.1%
12	TYPE OF REPORTING PER	SON*			PN

	CUSIP NO. 04963C209		13 G		Page 4 of 22
	NAME OF REPORTING SS OR I.R.S. IDENTIFI USVP Entrepo Tax ID Numbe	reneur Pai	O. OF ABOVE PERSON rtners VIII-A, L.P. ("USVP EP VIII-A")		
	CHECK THE APPROPRIATE		A MEMBER OF A GROUP*	(a)	(b) X
	SEC USE ONLY				
	CITIZENSHIP OR PLACE	OF ORGAN	IZATION		
	Delaware				
5 NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		5	SOLE VOTING POWER 22,444 shares, of which 21,575 are upon conversion of warrants; exce partner of USVP EP VIII-A, may be these shares, and Connors, Federma and Young, the managing members of shared power to vote these shares.	pt that PMG V deemed to ha n, Fu, Krausz PMG VIII, ma	III, the general ve sole power to vote , Liddle, Root, Rust
		6	SHARED VOTING POWER See response to row 5.		
		7	SOLE DISPOSITIVE POWER 22,444 shares, of which 21,575 are upon conversion of warrants; exce partner of USVP EP VIII-A, may be dispose of these shares, and Conno Root, Rust and Young, the managing to have shared power to dispose of	pt that PMG V deemed to ha rs, Federman, members of P	III, the general ve sole power to Fu, Krausz, Liddle, MG VIII, may be deemed
		8	SHARED DISPOSITIVE POWER See response to row 7.		
	AGGREGATE AMOUNT BENE REPORTING PERSON	FICIALLY	OWNED BY EACH		22,444
	CHECK BOX IF THE AGGR EXCLUDES CERTAIN SHAR		OUNT IN ROW (9)		
 L	PERCENT OF CLASS REPR	_			0.2%
 2	TYPE OF REPORTING PER				PN

CUSIP NO. 04963C209		13 G		Page 5 of 22	
1	NAME OF REPORTING SS OR I.R.S. IDENTIFIC USVP Entrepre Tax ID Number	neur Pa	O. OF ABOVE PERSON rtners VIII-B, L.P. ("USVP EP VIII-B")		
2	CHECK THE APPROPRIATE	BOX IF	A MEMBER OF A GROUP*	(a)	(b) X
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE O	F ORGAN	IZATION		
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 12,041 shares, of which 11,575 are upon conversion of warrants; except of USVP EP VIII-B, may be deemed to shares, and Connors, Federman, Fu, Young, the managing members of PMG power to vote these shares. SHARED VOTING POWER	that PMG VI have sole p Krausz, Lido	III, the general partner bower to vote these dle, Root, Rust and
		6 7	Sole Dispositive Power Sole Dispositive Power 12,041 shares, of which 11,575 are upon conversion of warrants; except of USVP EP VIII-B, may be deemed to these shares, and Connors, Federman and Young, the managing members of shared power to dispose of these sh	that PMG VI have sole p , Fu, Krausz PMG VIII, ma	III, the general partner Dower to dispose of Z, Liddle, Root, Rust
		8	SHARED DISPOSITIVE POWER See response to row 7.		
9	AGGREGATE AMOUNT BENEF REPORTING PERSON	ICIALLY	OWNED BY EACH		12,041
10	CHECK BOX IF THE AGGRE EXCLUDES CERTAIN SHARE				
11	PERCENT OF CLASS REPRE	SENTED I	BY AMOUNT IN ROW 9		0.1%
12	TYPE OF REPORTING PERS				PN

-	CUSIP NO. 04963C209		13 G		Page 6 of 22
1	NAME OF REPORTING SS OR I.R.S. IDENTIFICA Presidio Manag Tax ID Number:		O. OF ABOVE PERSON Group VIII, L.L.C.		
2	CHECK THE APPROPRIATE B			(a)	(b) X
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE OF Delaware	ORGANI	ZATION		
-	DETAWALE				
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH			SOLE VOTING POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP V USVP EP VIII-A and 12,041 are directly owned by USVP V and USVP EP VIII-B, may be deemed the shares, and Connors, Federman, Fu, Young, the managing members of PMG power to vote these shares.	TIII AF, 22,444 Etly owned by U TIII, USVP VIII TO have sole po Krausz, Liddlo	4 are directly owned by USVP EP VIII-B. PMG I AF, USVP EP VIII-A ower to vote these e, Root, Rust and
		6	SHARED VOTING POWER See response to row 5.		
		7	SOLE DISPOSITIVE POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP V USVP EP VIII-A and 12,041 are directly owned by USVP V USVP EP VIII-B, may be deemed to these shares, and Connors, Federman Young, the managing members of PMG power to dispose of these shares.	24 are directly VIII AF, 22,444 Etly owned by UTII, USVP VIII O have sole po	y owned by USVP VIII, 4 are directly owned by JSVP EP VIII-B. PMG I AF, USVP EP VIII-A ower to dispose of Liddle, Root, Rust and
		8	SHARED DISPOSITIVE POWER See response to row 7.		
9	AGGREGATE AMOUNT BENEFI REPORTING PERSON	CIALLY	OWNED BY EACH		2,339,062
10	CHECK BOX IF THE AGGREG EXCLUDES CERTAIN SHARES		DUNT IN ROW (9)		
- 11	PERCENT OF CLASS REPRES	ENTED E	BY AMOUNT IN ROW 9		19.4%
- 12 -	2 TYPE OF REPORTING PERSO	 N* 			00

	CUSIP NO. 04963C209	13 G		Page 7 of 22
1	NAME OF REPORTING PERSON			
	Timothy Connors			
2	CHECK THE APPROPRIATE BO	X IF A MEMBER OF A GROUP*	(a)	(b) X
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF	DRGANIZATION		
	U.S. Citizen			
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	SOLE VOTING POWER O Shares		
		SHARED VOTING POWER 2,339,062 shares, of which 2,28 17,653 are directly owned by US by USVP EP VIII-A and 12,041 ar PMG VIII is the general partner VIII-A and USVP EP VIII-B. Conr be deemed to have shared power	SVP VIII AF, 22,4 re directly owned r of USVP VIII, US nors, a managing o	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP member of PMG VIII, may
		7 SOLE DISPOSITIVE POWER 0 Shares		
		SHARED DISPOSITIVE POWER 2,339,062 shares, of which 2,28 17,653 are directly owned by US by USVP EP VIII-A and 12,041 ar PMG VIII is the general partner VIII-A and USVP EP VIII-B. Conr be deemed to have shared power	SVP VIII AF, 22,4 re directly owned r of USVP VIII, US nors, a managing o	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP member of PMG VIII, may
9	AGGREGATE AMOUNT BENEFIC REPORTING PERSON	IALLY OWNED BY EACH		2,339,062
10	CHECK BOX IF THE AGGREGA EXCLUDES CERTAIN SHARES*	TE AMOUNT IN ROW (9)		
 11	PERCENT OF CLASS REPRESE	NTED BY AMOUNT IN ROW 9		19.4%

12 TYPE OF REPORTING PERSON*

	CUSIP NO. 04963C209		13 G		Page 8 of 22
1	NAME OF REPORTING F	PERSON			
	Irwin Federman				
2	CHECK THE APPROPRIA		A MEMBER OF A GROUP*	(a)	(b) X
3	SEC USE ONLY				
4	CITIZENSHIP OR PLAC	E OF ORGAN	IZATION		
	U.S. Citizen				
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0 Shares		
		6	SHARED VOTING POWER 2,339,062 shares, of which 2,280 17,653 are directly owned by USV by USVP EP VIII-A and 12,041 are PMG VIII is the general partner VIII-A and USVP EP VIII-B. Feder may be deemed to have shared poor	VP VIII AF, 22,4 e directly owned of USVP VIII, U rman, a managing	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP member of PMG VIII,
		7	SOLE DISPOSITIVE POWER 0 Shares		
		8	SHARED DISPOSITIVE POWER 2,339,062 shares, of which 2,28 17,653 are directly owned by USV by USVP EP VIII-A and 12,041 are PMG VIII is the general partner VIII-A and USVP EP VIII-B. Feder may be deemed to have shared po	VP VIII AF, 22,44 e directly owned of USVP VIII, US rman, a managing	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP member of PMG VIII,
9	AGGREGATE AMOUNT BE REPORTING PERSON				2,339,062
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*				
11	PERCENT OF CLASS RE	PRESENTED	BY AMOUNT IN ROW 9		19.4%
12	TYPE OF REPORTING F	PERSON*			IN

CUSIP NO. 04963C209			13 G		Page 9 of 22
1	NAME OF REPORTING PE	RS0N			
	Winston Fu				
2	CHECK THE APPROPRIAT	E BOX IF A	A MEMBER OF A GROUP*	(a)	(b) X
3	SEC USE ONLY				
 4	CITIZENSHIP OR PLACE	OF ORGANI	ZATION		
	U.S. Citizen				
	NUMBER OF	5	SOLE VOTING POWER 0 Shares		
	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	SHARED VOTING POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP N by USVP EP VIII-A and 12,041 are di PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Fu, a madeemed to have shared power to vote	/III AF, 22,44 Lrectly owned USVP VIII, US Anaging member	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP of PMG VIII, may be
		7	SOLE DISPOSITIVE POWER 0 Shares		
		8	SHARED DISPOSITIVE POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP N by USVP EP VIII-A and 12,041 are di PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Fu, a madeemed to have shared power to disp	/III AF, 22,44 Lrectly owned USVP VIII, US Anaging member	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP of PMG VIII, may be
9	AGGREGATE AMOUNT BEN REPORTING PERSON	EFICIALLY	OWNED BY EACH		2,339,062
 10	CHECK BOX IF THE AGG EXCLUDES CERTAIN SHA		OUNT IN ROW (9)		
 11	PERCENT OF CLASS REP	RESENTED E	BY AMOUNT IN ROW 9		19.4%
 12	TYPE OF REPORTING PE				IN

CUSIP NO. 04963C209			13 G		Page 10 of 22
1	NAME OF REPORTING PE	RSON			
	Steven M. Krausz				
2	CHECK THE APPROPRIAT	E BOX IF A	A MEMBER OF A GROUP*	(a)	(b) X
3	SEC USE ONLY				
 4	CITIZENSHIP OR PLACE	OF ORGAN	IZATION		
	U.S. Citizen				
	NUMBER OF	5	SOLE VOTING POWER 0 Shares		
	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	SHARED VOTING POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP V by USVP EP VIII-A and 12,041 are di PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Krausz, be deemed to have shared power to v	/III AF, 22,44 Lrectly owned USVP VIII, US a managing me	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP ember of PMG VIII, may
		7	SOLE DISPOSITIVE POWER 0 Shares		
		8	SHARED DISPOSITIVE POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP V by USVP EP VIII-A and 12,041 are di PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Krausz, be deemed to have shared power to o	/III AF, 22,44 Lrectly owned USVP VIII, US a managing me	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP ember of PMG VIII, may
 9	AGGREGATE AMOUNT BEN REPORTING PERSON	EFICIALLY	OWNED BY EACH		2,339,062
 10	CHECK BOX IF THE AGG EXCLUDES CERTAIN SHA		OUNT IN ROW (9)		
 11	PERCENT OF CLASS REP	RESENTED E	3Y AMOUNT IN ROW 9		19.4%
 12	TYPE OF REPORTING PE	RSON*			IN

CUSIP NO. 04963C209		13 G	13 G Page 1:		
 1	NAME OF REPORTING PE	ERSON			
 2	David LiddleCHECK THE APPROPRIAT	E BOX IF A	A MEMBER OF A GROUP*	(a)	(b) X
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE U.S. Citizen	OF ORGAN	IZATION		
	NUMBER OF	5	SOLE VOTING POWER 0 Shares		
	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	SHARED VOTING POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP V by USVP EP VIII-A and 12,041 are di PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Liddle, be deemed to have shared power to N	/III AF, 22,4 Lrectly owned USVP VIII, U a managing m vote these sh	144 are directly owned I by USVP EP VIII-B. USVP VIII AF, USVP EP nember of PMG VIII, may
		7	SOLE DISPOSITIVE POWER 0 Shares		
		8	SHARED DISPOSITIVE POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP N by USVP EP VIII-A and 12,041 are di PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Liddle, be deemed to have shared power to o	/III AF, 22,4 trectly owned USVP VIII, U a managing m	144 are directly owned I by USVP EP VIII-B. USVP VIII AF, USVP EP Dember of PMG VIII, may
9	AGGREGATE AMOUNT BEN REPORTING PERSON	IEFICIALLY	OWNED BY EACH		2,339,062
10	CHECK BOX IF THE AGG EXCLUDES CERTAIN SHA		OUNT IN ROW (9)		
 11	PERCENT OF CLASS REF	PRESENTED E	BY AMOUNT IN ROW 9		19.4%
12	TYPE OF REPORTING PE				IN

CUSIP NO. 04963C209			13 G		Page 12 of 22
1	NAME OF REPORTING PER Jonathan D. Root	RSON			
2	CHECK THE APPROPRIATE			(a)	(b) X
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE U.S. Citizen	OF ORGAN	IZATION		
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5 6	SOLE VOTING POWER 0 Shares SHARED VOTING POWER 2,339,062 shares, of which 2,286,9 17,653 are directly owned by USVP by USVP EP VIII-A and 12,041 are d PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Root, a be deemed to have shared power to SOLE DISPOSITIVE POWER 0 Shares SHARED DISPOSITIVE POWER 2,339,062 shares, of which 2,286,9 17,653 are directly owned by USVP by USVP EP VIII-A and 12,041 are d PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Root, a be deemed to have shared power to	VIII AF, 22,4 irectly owned USVP VIII, U managing mem vote these sh 24 are direct VIII AF, 22,4 irectly owned USVP VIII, U managing mem	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP ber of PMG VIII, may ares. ly owned by USVP VIII, 44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP ber of PMG VIII, may
9	AGGREGATE AMOUNT BENE REPORTING PERSON	EFICIALLY	OWNED BY EACH		2,339,062
10	CHECK BOX IF THE AGGI EXCLUDES CERTAIN SHAP		OUNT IN ROW (9)		
11	PERCENT OF CLASS REP	RESENTED	BY AMOUNT IN ROW 9		19.4%
12	TYPE OF REPORTING PER	RSON*			IN

	CUSIP NO. 04963C209		13 G		Page 13 of 22
1	NAME OF REPORTING PE	RSON			
	Christopher Rust				
2	CHECK THE APPROPRIAT	E BOX IF	A MEMBER OF A GROUP*	(a)	(b) X
3	SEC USE ONLY				
 4	CITIZENSHIP OR PLACE	OF ORGAN	IZATION		
	U.S. Citizen				
	NUMBER OF	5	SOLE VOTING POWER 0 Shares		
	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	SHARED VOTING POWER 2,339,062 shares, of which 2,286,924 17,653 are directly owned by USVP VI by USVP EP VIII-A and 12,041 are dir PMG VIII is the general partner of L VIII-A and USVP EP VIII-B. Rust, a m be deemed to have shared power to vo	III AF, 22,4 Tectly owned USVP VIII, Unanaging mem	144 are directly owned I by USVP EP VIII-B. JSVP VIII AF, USVP EP ber of PMG VIII, may
		7	SOLE DISPOSITIVE POWER 0 Shares		
		8	SHARED DISPOSITIVE POWER 2,339,062 shares, of which 2,286,924 17,653 are directly owned by USVP VI by USVP EP VIII-A and 12,041 are dir PMG VIII is the general partner of L VIII-A and USVP EP VIII-B. Rust, a m be deemed to have shared power to di	III AF, 22,4 ectly owned JSVP VIII, U nanaging mem	144 are directly owned 1 by USVP EP VIII-B. JSVP VIII AF, USVP EP 1ber of PMG VIII, may
9	AGGREGATE AMOUNT BEN REPORTING PERSON	EFICIALLY	OWNED BY EACH		2,339,062
 10	CHECK BOX IF THE AGG EXCLUDES CERTAIN SHA		OUNT IN ROW (9)		
 11	PERCENT OF CLASS REP	RESENTED	BY AMOUNT IN ROW 9		19.4%

TYPE OF REPORTING PERSON*

	CUSIP NO. 04963C209		13 G		Page 14 of 22
1	NAME OF REPORTING PE	RSON			
	Philip M. Young				
2	CHECK THE APPROPRIAT	E BOX IF A		(a)	(b) X
3	SEC USE ONLY				
 4	CITIZENSHIP OR PLACE	OF ORGAN	IZATION		
	U.S. Citizen				
	NUMBER OF	5	SOLE VOTING POWER 0 Shares		
	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	SHARED VOTING POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP N by USVP EP VIII-A and 12,041 are di PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Young, a be deemed to have shared power to N	III AF, 22,4 rectly owned USVP VIII, U managing me	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP mber of PMG VIII, may
		7	SOLE DISPOSITIVE POWER 0 Shares		
		8	SHARED DISPOSITIVE POWER 2,339,062 shares, of which 2,286,92 17,653 are directly owned by USVP V by USVP EP VIII-A and 12,041 are di PMG VIII is the general partner of VIII-A and USVP EP VIII-B. Young, a be deemed to have shared power to o	III AF, 22,4 rectly owned USVP VIII, U managing me	44 are directly owned by USVP EP VIII-B. SVP VIII AF, USVP EP mber of PMG VIII, may
 9	AGGREGATE AMOUNT BEN REPORTING PERSON	EFICIALLY	OWNED BY EACH		2,339,062
 10	CHECK BOX IF THE AGG EXCLUDES CERTAIN SHA		DUNT IN ROW (9)		
 11	PERCENT OF CLASS REP	RESENTED E	3Y AMOUNT IN ROW 9		19.4%
 12	TYPE OF REPORTING PE	RSON*			IN

CUSIP NO. 04963C209 13 G Page 15 of 22

ITEM 1(A). NAME OF ISSUER

AtriCure, Inc.

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

6033 Schumacher Park Drive Cincinnati, OH 45069

ITEM 2(A). NAME OF PERSONS FILING

This Statement is filed by Presidio Management Group VIII, L.L.C., a Delaware limited liability company ("PMG VIII"), U.S. Venture Partners VIII, L.P., a Delaware limited partnership ("USVP VIII"), USVP VIII Affiliates Fund, L.P., a Delaware limited partnership ("USVP VIII AF"), USVP Entrepreneur Partners VIII-A, L.P., a Delaware limited partnership ("USVP EP VIII-A"), U.S. Entrepreneur Partners VIII-B, a Delaware limited partnership ("USVP EP VIII-B"), Timothy Connors ("Connors"), Irwin Federman ("Federman"), Winston Fu ("Fu"), Steven M. Krausz ("Krausz"), David Liddle ("Liddle"), Jonathan D. Root ("Root") Christopher Rust ("Rust") and Philip M. Young ("Young"). The foregoing entities and individuals are collectively referred to as the "Reporting Persons."

PMG VIII, the general partner of USVP VIII, USVP VIII AF, USVP EP VIII-A and USVP EP VIII-B, may be deemed to have sole power to vote and sole power to dispose of shares of the issuer directly owned by USVP VIII, USVP VIII AF, USVP EP VIII-A and USVP EP VIII-B. Connors, Federman, Fu, Krausz, Liddle, Root, Rust and Young are managing members of PMG VIII and may be deemed to have shared power to vote and shared power to dispose of shares of the issuer directly owned by USVP VIII, USVP VIII AF, USVP EP VIII-A and USVP EP VIII-B.

ITEM 2(B). ADDRESS OF PRINCIPAL OFFICE

The address for each of the Reporting Persons is:

U.S. Venture Partners 2735 Sand Hill Road Menlo Park, California 94025

ITEM 2(C) CITIZENSHIP

USVP VIII, USVP VIII AF, USVP EP VIII-A and USVP EP VIII-B are Delaware limited partnerships. PMG VIII is a Delaware limited liability company. Connors, Federman, Fu, Krausz, Liddle, Root, Rust and Young are United States citizens.

ITEM 2(D) AND (E). TITLE OF CLASS OF SECURITIES AND CUSIP NUMBER

Common Stock CUSIP # 04963C209

ITEM 3. Not Applicable.

CUSIP NO. 04963C209	13 G	Page 16 of 22

ITEM 4. OWNERSHIP

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount beneficially owned:

See Row 9 of cover page for each Reporting Person.

(b) Percent of Class:

See Row 11 of cover page for each Reporting Person.

- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote:

See Row 5 of cover page for each Reporting Person.

(ii) Shared power to vote or to direct the vote:

See Row 6 of cover $% \left(1\right) =\left(1\right) +\left(1\right) =\left(1\right) +\left(1\right)$

(iii) Sole power to dispose or to direct the disposition of:

See Row 7 of cover page for each Reporting Person.

See Row 8 of cover $\;$ page $\;$ for $\;$ each $\;$ Reporting Person.

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

Not applicable.

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER

PERSON.

Under certain circumstances set forth in the limited partnership agreements of USVP VIII, USVP VIII AF, USVP EP VIII-A and USVP EP VIII-B, and the limited liability company agreement of PMG VIII, the general and limited partners or members, as the case may be, of each of such entities may be deemed to have the right to receive dividends from, or the proceeds from, the sale of shares of the issuer owned by each such entity of which they are a partner or member, as the case may be.

TITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH
ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING

COMPANY

Not applicable.

	CUSIP NO.	04963C209	13 G	Page 17 of 22	-
					-
ITEM	8.	IDENTIFICATION	AND CLASSIFICATION OF	MEMBERS OF THE GROUP.	
		Not applicable.			
		мог арритсавие.			
ITEM	9.	NOTICE OF DISSO	OLUTION OF GROUP.		
		Not applicable.			
ITEM	10.	CERTIFICATION.			
		Not applicable.			

CUSIP NO. 04963C209	13 G	Page 18 of 22
-		
	SIGNATURES	
		t of my knowledge and belief, I s statement is true, complete and
Dated: February 10, 2006		
U.S. VENTURE PARTNERS VIII, L.P.		/s/ Michael Maher
By Presidio Management Group VIII Its General Partner	, L.L.C.	Signature
		Michael Maher
		Chief Financial Officer/ Attorney-In-Fact*
USVP VIII Affiliates Fund, L.P.		/s/ Michael Maher
By Presidio Management Group VIII Its General Partner	, L.L.C.	Signature
		Michael Maher
		Chief Financial Officer/ Attorney-In-Fact*
USVP Entrepreneur Partners VIII-A By Presidio Management Group VIII		/s/ Michael Maher
Its General Partner	, [Signature
		Michael Maher
		Chief Financial Officer/ Attorney-In-Fact*
USVP Entrepreneur Partners VIII-B By Presidio Management Group VIII		/s/ Michael Maher
Its General Partner	, L.L.C.	Signature
		Michael Maher
		Chief Financial Officer/ Attorney-In-Fact*
PRESIDIO MANAGEMENT GROUP VIII, L		/s/ Michael Maher
A Delaware Limited Liability Comp	any	Signature
		Michael Maher
		Chief Financial Officer/ Attorney-In-Fact*
Timothy Connors		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Irwin Federman		/s/ Michael Maher
		Michael Maher

Attorney-In-Fact*

CUSIP NO. 04963C209	13 G	Page 19 of 22
Winston Fu		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Steven M. Krausz		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
David Liddle		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Jonathan D. Root		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Christopher Rust		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Philip M. Young		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*

 $\mbox{*Signed}$ pursuant to a Power of Attorney already on file with the appropriate agencies.

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative other than an executive officer or general partner of the filing person, evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the Commission may be incorporated by reference. The name and any title of each person who signs the statement shall be typed or printed beneath his signature.

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See ss.240.13d-7 for other parties for whom copies are to be sent.

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)

CUSIP NO. 04963C209	13 G	Page 20 of 22
	EVILLET THEFY	
	EXHIBIT INDEX	
		Found on
		Sequentially
Exhibit		Numbered Page

22

Exhibit A: Agreement of Joint Filing

CUSIP NO. 04963C209	13 G	Page 21 of 22
	EXHIBIT A	

The undersigned hereby agree that a single Schedule 13G (or any amendment thereto) relating to the Common Stock of Atricure, Inc. shall be filed on behalf of each of the undersigned and that this Agreement shall be filed as an exhibit to such Schedule 13G.

Agreement of Joint Filing

Dated: February 10, 2006 U.S. VENTURE PARTNERS VIII, L.P. /s/ Michael Maher By Presidio Management Group VIII, L.L.C. Its General Partner Signature

> Michael Maher Chief Financial Officer/ Attorney-In-Fact*

USVP VIII Affiliates Fund, L.P. By Presidio Management Group VIII, L.L.C. Its General Partner

/s/ Michael Maher Signature

Michael Maher Chief Financial Officer/

Attorney-In-Fact*

USVP Entrepreneur Partners VIII-A, L.P., By Presidio Management Group VIII, L.L.C. Its General Partner

/s/ Michael Maher Signature

Michael Maher Chief Financial Officer/

Attorney-In-Fact*

USVP Entrepreneur Partners VIII-B- L.P., By Presidio Management Group VIII, L.L.C. Its General Partner

/s/ Michael Maher Signature

Michael Maher Chief Financial Officer/

Attorney-In-Fact*

PRESIDIO MANAGEMENT GROUP VIII, L.L.C. A Delaware Limited Liability Company

Timothy Connors

/s/ Michael Maher Signature

Michael Maher

Chief Financial Officer/ Attorney-In-Fact*

/s/ Michael Maher

Michael Maher Attorney-In-Fact*

Irwin Federman /s/ Michael Maher

Michael Maher

Attorney-In-Fact*

CUSIP NO. 04963C209	13 G	Page 22 of 22
Winston Fu		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Steven M. Krausz		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
David Liddle		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Jonathan D. Root		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Christopher Rust		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*
Philip M. Young		/s/ Michael Maher
		Michael Maher Attorney-In-Fact*

 $\ensuremath{^{\star}}\textsc{Signed}$ pursuant to a Power of Attorney already on file with the appropriate agencies.