SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS
FILED PURSUANT TO RULES 13D-1 (b)(c), AND (d)
AND AMENDMENTS THERETO FILED
PURSUANT TO 13d-2(b)

(Amendment No. 5)*	
AVANT IMMUNOTHERAPEUTICS, INC.	
(Name of Issuer)	
Common Stock, \$.001 par value	
(Title of Class of Securities)	
053491106	
(CUSIP Number)	
December 31, 2001	
Date of Event Which Requires Filing of th	is Statement
Check the appropriate box to designate the rule puschedule is filed:	ursuant to which this
_ Rule 13d-1(b)	
_ Rule 13d-1(c)	
X Rule 13d-1(d)	
* The remainder of this cover page shall be filled of person's initial filing on this form with respect to the securities, and for any subsequent amendment containing alter the disclosures provided in a prior cover page.	e subject class of
The information required in the remainder of this cover to be "filed" for the purpose of Section 18 of the Secur 1934 ("Act") or otherwise subject to the liabilities of but shall be subject to all other provisions of the Act Notes).	rities Exchange Act of that section of the Act
(Continued on following page(s)) Page 1 of 17 Pages)
CUSIP No. 053491106 13G	Page 2 of 17 Pages
1 NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON	
HealthCare Ventures II, L.P.	
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*	(a) _ (b) _
3 SEC USE ONLY	
4 CITIZENSHIP OR PLACE OF ORGANIZATION	
Delaware 	
5 SOLE VOTING POWER	

SHARED VOTING POWER

115,895

NUMBER OF

SHARES BENEFICIALLY

OWNED BY EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER	
WITH	8 SHARED DISPOSITIVE POWER	
	115,895	
9 AGGREGATE AM	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
115,895		
10 CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		1_1
11 PERCENT OF C	CLASS REPRESENTED BY AMOUNT IN ROW (9)	
.19%		
12 TYPE OF REPO	DRTING PERSON*	
PN		
	*SEE INSTRUCTIONS BEFORE FILLING OUT	

1 NAME OF REPOR		
HealthCare Pa	artners II, L.P.	
2 CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP* (()	a) _ o) _
3 SEC USE ONLY		
4 CITIZENSHIP	OR PLACE OF ORGANIZATION	
Delaware		
	5 SOLE VOTING POWER	
NUMBER OF SHARES	6 SHARED VOTING POWER	
BENEFICIALLY OWNED BY	115,895	
EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER	
WITH	8 SHARED DISPOSITIVE POWER	
	115,895	
9 AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		l_l
11 PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)	
.19%		
12 TYPE OF REPOR		
PN		
	*SEE INSTRUCTIONS BEFORE FILLING OUT	-

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1 NAME OF REPOR		
HealthCare Ve	entures III, L.P.	
2 CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP* (a	a) _ o) _
3 SEC USE ONLY		
4 CITIZENSHIP (OR PLACE OF ORGANIZATION	
Delaware		
	5 SOLE VOTING POWER	
NUMBER OF SHARES	6 SHARED VOTING POWER	
BENEFICIALLY OWNED BY EACH REPORTING PERSON	2,046,908	
	7 SOLE DISPOSITIVE POWER	
WITH	8 SHARED DISPOSITIVE POWER	
	2,046,908	
	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
2,046,908		
10 CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	1.1
	LASS REPRESENTED BY AMOUNT IN ROW (9)	_
3.39%	ENGO KEN KEGENTED DI ANIGGNI IN KOW (3)	
12 TYPE OF REPOR	RTING PERSON*	
PN		
	*SEE INSTRUCTIONS BEFORE FILLING OUT	

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CUSIP No. 053491106	6	13G	Page 5 of 17 Pages
1 NAME OF REPORTI S.S. OR I.R.S.	ING PERSON IDENTIFICATION NO.	OF ABOVE PERSON	
HealthCare Part	ners III, L.P.		
	PRIATE BOX IF A ME	MBER OF A GROUP*	(a) _ (b) _
3 SEC USE ONLY			
	PLACE OF ORGANIZAT	ION	
Delaware			
	SOLE VOTING PO	√ER	
NUMBER OF 6 SHARES	SHARED VOTING	POWER	
BENEFICIALLY OWNED BY -	2,046,908		
	7 SOLE DISPOSITI	VE POWER	
WITH - 8	SHARED DISPOSI	TIVE POWER	
	2,046,908		
9 AGGREGATE AMOUN	NT BENEFICIALLY OWN	ED BY EACH REPORTING PER	
2,046,908			
10 CHECK BOX IF TH	HE AGGREGATE AMOUNT	IN ROW (9) EXCLUDES CER	TAIN SHARES*
			I_I
11 PERCENT OF CLAS			
3.39%			
12 TYPE OF REPORTI	ING PERSON*		
PN			
	*SEE INSTRUCTIONS	S BEFORE FILLING OUT	

1 NAME OF REPOR		
HealthCare Ve	entures IV, L.P.	
2 CHECK THE APF	PROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ b) _
3 SEC USE ONLY		
4 CITIZENSHIP C	OR PLACE OF ORGANIZATION	
Delaware		
	5 SOLE VOTING POWER	
NUMBER OF SHARES	6 SHARED VOTING POWER	
BENEFICIALLY OWNED BY	601,099	
EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER	
WITH	8 SHARED DISPOSITIVE POWER	
	601,099	
9 AGGREGATE AMC 601,099	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10 CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		I_I
11 PERCENT OF CL	LASS REPRESENTED BY AMOUNT IN ROW (9)	
.99%		
12 TYPE OF REPOR	RTING PERSON*	
PN		
	*SEE INSTRUCTIONS BEFORE FILLING OUT	

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1 NAME OF REPOR	RTING F		
HealthCare Pa	artners	S IV, L.P.	
2 CHECK THE APF	PROPRIA	ATE BOX IF A MEMBER OF A GROUP*	(a) _ (b) _
3 SEC USE ONLY			
4 CITIZENSHIP C	OR PLAC	CE OF ORGANIZATION	
Delaware			
	5	SOLE VOTING POWER	
NUMBER OF	6	SHARED VOTING POWER	
SHARES BENEFICIALLY		601,099	
OWNED BY EACH REPORTING PERSON	7	SOLE DISPOSITIVE POWER	
WITH	8	SHARED DISPOSITIVE POWER	
		601,099	
9 AGGREGATE AMC 601,099	DUNT BE	ENEFICIALLY OWNED BY EACH REPORTING PERSON	
		GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		·	l_I
11 PERCENT OF CL	ASS RE	EPRESENTED BY AMOUNT IN ROW (9)	
.99%			
12 TYPE OF REPOR	RTING F	PERSON*	
PN			
	* 5	SEE INSTRUCTIONS BEFORE FILLING OUT	

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CUSIP No. 05349110	96	13G	Page 8 of 17 Pages
1 NAME OF REPORT S.S. OR I.R.S.	TING PERSON . IDENTIFICATION NO.	OF ABOVE PERSON	
James H. Cavar	naugh, Ph.D.		
	ROPRIATE BOX IF A ME		(a) _ (b) _
3 SEC USE ONLY			
	R PLACE OF ORGANIZAT		
United States			
	5 SOLE VOTING PO	WER	
NUMBER OF SHARES	6 SHARED VOTING	POWER	
BENEFICIALLY OWNED BY	2,763,902		
	7 SOLE DISPOSITIV	VE POWER	
WITH	8 SHARED DISPOSI	TIVE POWER	
	2,763,902		
9 AGGREGATE AMOL	JNT BENEFICIALLY OWN	ED BY EACH REPORTING PER	
2,763,902			
10 CHECK BOX IF T	THE AGGREGATE AMOUNT	IN ROW (9) EXCLUDES CER	TAIN SHARES*
			I_I
	ASS REPRESENTED BY A		
4.57%			
12 TYPE OF REPORT	ΓING PERSON*		
IN			
	*SEE INSTRUCTIONS	S BEFORE FILLING OUT	

1	NAME OF REPOR	RTING PERSON S. IDENTIFICATION NO. OF ABOVE PERSON	
	Harold R. Wei	rner 	
2	CHECK THE APP	PROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ b) _
3	SEC USE ONLY		
4	CITIZENSHIP (OR PLACE OF ORGANIZATION	
	United States		
		5 SOLE VOTING POWER	
N		6 SHARED VOTING POWER	
BE	SHARES NEFICIALLY OWNED BY	2,763,902	
	7 SOLE DISPOSITIVE POWER		
	WITH	8 SHARED DISPOSITIVE POWER	
		2,763,902	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,763,902		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
			1_1
 11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.57%		
12	TYPE OF REPOR		
	IN		
		*SEE INSTRUCTIONS BEFORE FILLING OUT	

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1 NAME OF REPOR		
William Crous	Se	
2 CHECK THE APF	PROPRIATE BOX IF A MEMBER OF A GROUP* ((a) _ b) _
3 SEC USE ONLY		
4 CITIZENSHIP C	OR PLACE OF ORGANIZATION	
United States		
	5 SOLE VOTING POWER	
NUMBER OF	6 SHARED VOTING POWER	
SHARES BENEFICIALLY	2,763,902	
OWNED BY EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER	
WITH	8 SHARED DISPOSITIVE POWER	
	2,763,902	
9 AGGREGATE AMC 2,763,902	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		l_l
11 PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
4.57%		
12 TYPE OF REPOR		
IN		
	*SEE INSTRUCTIONS BEFORE FILLING OUT	-

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1 NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON John W. Littlechild 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) _ 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION United States 5 SOLE VOTING POWER
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) _ SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION United States 5 SOLE VOTING POWER
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) _ 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION United States 5 SOLE VOTING POWER
3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION United States 5 SOLE VOTING POWER
4 CITIZENSHIP OR PLACE OF ORGANIZATION United States 5 SOLE VOTING POWER
5 SOLE VOTING POWER
5 SOLE VOTING POWER
NUMBER OF 6 SHARED VOTING POWER
SHARES BENEFICIALLY 2,763,902 OWNED BY
EACH 7 SOLE DISPOSITIVE POWER REPORTING PERSON
WITH8 SHARED DISPOSITIVE POWER
2,763,902
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
2,763,902
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
I_I
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
4.57%
12 TYPE OF REPORTING PERSON*
IN
*SEE INSTRUCTIONS BEFORE FILLING OUT

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Item 1.

(a) Name of Issuer:

Avant Immunotherapeutics, Inc.

(b) Address of Issuer's Principal Executive Offices:

119 Fourth Avenue Needham, Massachusetts 02494-2725

Item 2.

(a) Name of Person Filing:

HealthCare Ventures II, L.P. ("HCV II"), HealthCare Partners II, L.P. ("HCP II"), HealthCare Ventures III, L.P. ("HCV III"), HealthCare Partners III, L.P. ("HCP III"), HealthCare Ventures IV, L.P. ("HCV IV"), HealthCare Partners IV, L.P. ("HCP IV"), Dr. Cavanaugh and Messrs. Werner, Littlechild and Crouse(1). See attached Exhibit A which is a copy of their agreement in writing to file this statement on behalf of each of them.

(b) Address of Principal Business Office or, if none, Residence:

The business address for HCV II, HCP II, HCV III, HCP III, HCV IV, HCP IV and Dr. Cavanaugh and Messrs. Werner and Crouse is 44 Nassau Street, Princeton, New Jersey 08542. The business address for Messr. Littlechild is One Kendall Square, Building 300, Cambridge, Massachusetts 02139.

(c) Citizenship:

HCV II, HCP II, HCV III, HCP III, HCV IV and HCP IV are limited partnerships organized under the laws of the State of Delaware. Dr. Cavanaugh and Messrs. Werner, Littlechild, and Crouse are each United States citizens.

(1) Dr. Cavanaugh and Messrs. Werner, Littlechild and Crouse are general partners of HCP II, HCP III and HCP IV, which are the general partners of HCV II, HCV III and HCV IV, respectively, the record holders of shares of the Issuer's securities reported hereto. (d) Title of Class of Securities:

Common Stock, par value \$.001 (the "Shares").

(e) CUSIP Number:

053491106

Item 3. If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b), check whether the person filing is a:

Inapplicable.

Item 4. Ownership.

(a) Amount Beneficially Owned:

As of December 31, 2001: HCV II and HCP II beneficially owned 115,895 Shares, all of which are immediately exercisable warrants to purchase the same number of Shares of the Issuer's Common Stock; HCV III and HCP III beneficially owned 2,046,908 Shares, consisting of 1,753,971 Shares of the Issuer's Common Stock and immediately exercisable warrants to purchase 292,937 Shares of the Issuer's Common Stock; HCV IV and HCP IV beneficially owned 601,099 Shares, consisting of 515,074 Shares of the Issuer's Common Stock and immediately exercisable warrants to purchase 86,025 Shares of the Issuer's Common Stock; Dr. Cavanaugh and Messrs. Werner, Littlechild and Crouse beneficially owned 2,763,902 Shares, consisting of 2,269,045 Shares of the Issuer's Common Stock and immediately exercisable warrants to purchase 494,857 Shares of the Issuer's Common Stock.

(b) Percent of Class:

As of December 31, 2001: the 115,895 immediately exercisable warrants to purchase the same number of Shares of the Issuer's Common Stock beneficially owned by HCV II and HCP II constitute .19% of Issuer's Shares outstanding; the 2,046,908 Shares, which includes the warrants to purchase the Shares of the Issuer's Common Stock, beneficially owned by HCV III and HCP III constitute 3.39% of the Issuer's Shares outstanding; the 601,099 Shares, which includes the warrants to purchase the Shares of the Issuer's Common Stock, beneficially owned by HCV IV and HCP IV constitute .99% of the Issuer's Shares outstanding; the 2,763,902 Shares, which includes the warrants to purchase the Shares of the Issuer's Common Stock, beneficially owned by Dr. Cavanaugh and Messrs. Werner, Littlechild and Crouse constitute 4.57% of the Issuer's Shares outstanding.

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

Not applicable.

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

HCV II, HCP II, Dr. Cavanaugh and Messrs. Werner, Littlechild, and Crouse share the power to vote or direct the vote of those Shares owned by HCV II.

HCV III, HCP III, Dr. Cavanaugh and Messrs. Werner, Littlechild, and Crouse share the power to vote or direct the vote of those Shares owned by HCV III.

HCV IV, HCP IV, Dr. Cavanaugh and Messrs. Werner, Littlechild, and Crouse share the power to vote or direct the vote of those Shares owned by HCV IV.

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

Not applicable.

(iv) shared power to dispose of or to direct the disposition of:

HCV II, HCP II, Dr. Cavanaugh and Messrs. Werner and Littlechild share the power to dispose of or direct the disposition of those Shares owned by HCV II.

HCV III, HCP III, Dr. Cavanaugh and Messrs. Werner, Littlechild and Crouse share the power to dispose of or direct the disposition of those Shares owned by HCV III.

HCV IV, HCP IV, Dr. Cavanaugh and Messrs. Werner, Littlechild and Crouse share the power to dispose of or direct the disposition of those Shares owned by HCV IV.

Item 5. Ownership of Five Percent or less of a Class:

This statement is being filed to report the fact that, as of the date hereof, the Reporting Persons have ceased to be the beneficial owner of more than five percent of the class of securities of the Issuer.

Item 6. Ownership of More than Five Percent on Behalf of Another Person:
Inapplicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company:

Inapplicable.

Item 8. Identification and Classification of Members of the Group:
Inapplicable.

Item 10. Certification: Inapplicable.

SIGNATURES

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.

Dated: February 8, 2002 Princeton, New Jersey	HealthCare Ventures II, L.P., by its General Partner, HealthCare Partners II, L.P.
	By: /s/ Jeffrey Steinberg
	Administrative Partner
Dated: February 8, 2002 Princeton, New Jersey	HealthCare Partners II, L.P.
	By: /s/ Jeffrey Steinberg
	Administrative Partner
Dated: February 8, 2002 Princeton, New Jersey	HealthCare Ventures III, L.P., by its General Partner, HealthCare Partners III, L.P.
	By: /s/ Jeffrey Steinberg
	Administrative Partner
Dated: February 8, 2002	HealthCare Partners III, L.P.
Princeton, New Jersey	By: /s/ Jeffrey Steinberg
	Administrative Partner
Dated: February 8, 2002 Princeton, New Jersey	HealthCare Ventures IV, L.P., by its General Partner, HealthCare Partners IV, L.P.
	By: /s/ Jeffrey Steinberg
	Administrative Partner
Dated: February 8, 2002	HealthCare Partners IV, L.P.
Princeton, New Jersey	By: /s/ Jeffrey Steinberg
	Administrative Partner
Dated: February 8, 2002 Princeton, New Jersey	By: /s/ Jeffrey Steinberg, Attorney-in-Fact
Transcion, new dersey	James H. Cavanaugh, Ph.D.
Dated: February 8, 2002	By: /s/ Jeffrey Steinberg, Attorney-in-Fact
Princeton, New Jersey	Harold R. Werner
Dated: February 8, 2002	By: /s/ Jeffrey Steinberg, Attorney-in-Fact
Cambridge, Massachusetts	John W. Littlechild
Dated: February 8, 2002	By: /s/ Jeffrey Steinberg, Attorney-in-Fact
Princeton, New Jersey	William Crouse

EXHIBIT A

AGREEMENT

JOINT FILING OF SCHEDULE 13G

The undersigned hereby agree to jointly prepare and file with regulatory authorities a Schedule 13G and any future amendments thereto reporting each of the undersigned's ownership of securities of Avant Immunotherapeutics, Inc. and hereby affirm that such Schedule 13G is being filed on behalf of each of the undersigned.

Dated: February 8, 20 Princeton, Ne		HealthCare Ventures II, L.P., by its General Partner, HealthCare Partners II, L.P. By: /s/ Jeffrey Steinberg
		Administrative Partner
Dated: February 8, 20 Princeton, New		HealthCare Partners II, L.P.
	w Jersey	By: /s/ Jeffrey Steinberg
		Administrative Partner
Dated: February 8, 20 Princeton, New		HealthCare Ventures III, L.P., by its General Partner, HealthCare Partners III, L.P.
		By: /s/ Jeffrey Steinberg Administrative Partner
Dated: February 8, 2002 Princeton, New Jer		HealthCare Partners III, L.P.
		By: /s/ Jeffrey Steinberg
		Administrative Partner
Dated: February 8, 2002 Princeton, New 3		HealthCare Ventures IV, L.P., by its General Partner, HealthCare Partners IV, L.P.
		By: /s/ Jeffrey Steinberg
		Administrative Partner
Dated: February 8, 2002 Princeton, New Jersey		HealthCare Partners IV, L.P.
	Jersey	By: /s/ Jeffrey Steinberg
		Administrative Partner
Dated: February 8, 2002 Princeton, New Jersey		By: /s/ Jeffrey Steinberg, Attorney-in-Fact
	Jersey	James H. Cavanaugh, Ph.D.
Dated: February 8, 2002 Princeton, New Jersey		By: /s/ Jeffrey Steinberg, Attorney-in-Fact
	•	Harold R. Werner
Dated: February 8, 20 Cambridge, Mas		By: /s/ Jeffrey Steinberg, Attorney-in-Fact John W. Littlechild
Dated: February 8, 20 Princeton, New		By: /s/ Jeffrey Steinberg, Attorney-in-Fact

William Crouse