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. 4)*						
AVANT IMMUNOTHERAPEUTICS, INC.						
(Name of Issuer)						
Common Stock, \$.001 par value						
		(Title of C	lass of Secu	rities)		
			953491106			
			SIP Number)			
initial filing on for any subsequen	* 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 the disclosures provided in a prior cover page.					
The information r to be "filed" for 1934 ("Act") or o but shall be subj Notes).	the therw	purpose of Sect ise subject to	tion 18 of t the liabili	he Securitie ties of that	s Exchange Act section of the	of
		(Continued or Page 1	n following 1 of 17 Page			
CUSIP No. 0534911	.06		13G		Page 2 of 19	Pages
1 NAME OF REPOR S.S. OR I.R.S	_	PERSON NTIFICATION NO.	. OF ABOVE P	ERSON		
HealthCare Ve	nture	s II, L.P.				
2 CHECK THE APP	ROPRI	ATE BOX IF A ME	EMBER OF A G	ROUP*		
					1.	a) _ o) _
3 SEC USE ONLY						
	 IR PLA	CE OF ORGANIZAT	 TION			
Delaware 						
	5	SOLE VOTING PO	JWER			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	SHARED VOTING	POWER			
		127,395				
	7	SOLE DISPOSIT	IVE POWER			
	8	SHARED DISPOSI				
		127,395				
REPORTING PERSON		SHARED DISPOSI				

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		1_1
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	. 23%	
12	TYPE OF REPORTING PERSON*	
	PN	
	*SEE INSTRUCTIONS BEFORE FILLING OUT	

1 NAME OF REPOR			
HealthCare Pa	artners II, L.P.		
2 CHECK THE APP	PROPRIATE BOX IF A MEMBER OF A GROUP*	(a) _ (b) _	
3 SEC USE ONLY			
4 CITIZENSHIP O	OR PLACE OF ORGANIZATION		
Delaware			
	5 SOLE VOTING POWER		
NUMBER OF SHARES	6 SHARED VOTING POWER		
BENEFICIALLY	127,395		
OWNED BY EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER		
WITH	8 SHARED DISPOSITIVE POWER		
	127,395		
	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
127, 395	THE ACCRECATE AMOUNT THE POLY (A) EVOLUDES CERTAIN CHARGES		
	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	1_1	
	LASS REPRESENTED BY AMOUNT IN ROW (9)		
.23%			
12 TYPE OF REPOR	RTING PERSON*		
PN			
	*SEE INSTRUCTIONS BEFORE FILLING OUT		

Page 3 of 19 Pages

	REPORTING PERSON T.R.S. IDENTIFICATION NO. OF ABOVE PERSON	
HealthCar	e Ventures III, L.P.	
2 CHECK THE	APPROPRIATE BOX IF A MEMBER OF A GROUP*	(a) _ (b) _
3 SEC USE C		
4 CITIZENSH	IP OR PLACE OF ORGANIZATION	
Delaware		
	5 SOLE VOTING POWER	
NUMBER OF	6 SHARED VOTING POWER	
SHARES BENEFICIALLY		
OWNED BY EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER	
WITH	8 SHARED DISPOSITIVE POWER	
	2,046,908	
9 AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
2,046,908		
10 CHECK BOX	(IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		1_1
11 PERCENT C	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
3.72%		
12 TYPE OF F	REPORTING PERSON*	
PN		
	*SEE INSTRUCTIONS BEFORE FILLING OUT	

Page 4 of 19 Pages

	PORTING PERSON R.S. IDENTIFICATION NO. OF ABOVE PERSON	
HealthCare	Partners III, L.P.	
2 CHECK THE	APPROPRIATE BOX IF A MEMBER OF A GROUP*	a) _ b) _
3 SEC USE ON		
4 CITIZENSHI	P OR PLACE OF ORGANIZATION	
Delaware		
	5 SOLE VOTING POWER	
NUMBER OF	6 SHARED VOTING POWER	
SHARES BENEFICIALLY		
OWNED BY EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER	
WITH	8 SHARED DISPOSITIVE POWER	
	2,046,908	
9 AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
2,046,908		
10 CHECK BOX	IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		1_1
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9)	
3.72%		
12 TYPE OF RE	PORTING PERSON*	
PN		
	*SEE INSTRUCTIONS BEFORE FILLING OUT	

Page 5 of 19 Pages

1 NAME OF REPOR			
HealthCare Ve	entures	IV, L.P.	
2 CHECK THE APP	PROPRIAT	TE BOX IF A MEMBER OF A GROUP*	(a) _ (b) _
3 SEC USE ONLY			
4 CITIZENSHIP O	OR PLACE	OF ORGANIZATION	
Delaware			
	5 5	SOLE VOTING POWER	
NUMBER OF	6 9	SHARED VOTING POWER	
SHARES BENEFICIALLY	6	601,099	
OWNED BY EACH REPORTING PERSON	7 \$	SOLE DISPOSITIVE POWER	
WITH	8 9	SHARED DISPOSITIVE POWER	
	6	501,099	
9 AGGREGATE AMO 601,099	DUNT BEN	NEFICIALLY OWNED BY EACH REPORTING PERSON	
		GREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
			l_I
11 PERCENT OF CL	LASS REF	PRESENTED BY AMOUNT IN ROW (9)	
1.09%			
12 TYPE OF REPOR	RTING PE		
PN			
	*SE	EE INSTRUCTIONS BEFORE FILLING OUT	

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1 NAME OF REPO			
HealthCare F	Partner	s IV, L.P.	
2 CHECK THE AF	PPROPRI	ATE BOX IF A MEMBER OF A GROUP*	(a) _ (b) _
3 SEC USE ONLY			
4 CITIZENSHIP	OR PLA	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 AM 601,099	MOUNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON	
		GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
		. ,	l_I
11 PERCENT OF C	CLASS R	EPRESENTED BY AMOUNT IN ROW (9)	
1.09%			
12 TYPE OF REPO	ORTING		-
PN			
	*	SEE INSTRUCTIONS BEFORE FILLING OUT	

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1 NAME OF REPOR				
James H. Cava	anaugh, Ph.D.			
3 SEC USE ONLY				
4 CITIZENSHIP	OR PLACE OF ORGANIZATION			
United States				
	5 SOLE VOTING POWER			
NUMBER OF SHARES	6 SHARED VOTING POWER			
BENEFICIALLY	2,775,402			
OWNED BY EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER			
WITH	8 SHARED DISPOSITIVE POWER			
	2,775,402			
	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
2,775,402				
10 CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	I_I		
	LASS REPRESENTED BY AMOUNT IN ROW (9)	1-1		
5.04%				
12 TYPE OF REPOR	RTING PERSON*			
IN				
	*SEE INSTRUCTIONS BEFORE FILLING OUT			

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1 NAME OF REPORTING S.S. OR I.R.S.	NG PERSON IDENTIFICATION NO. OF ABOVE PERSON
Harold R. Werne	
2 CHECK THE APPROF	PRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) _
3 SEC USE ONLY	
4 CITIZENSHIP OR F	PLACE OF ORGANIZATION
United States	
5	SOLE VOTING POWER
	SHARED VOTING POWER
SHARES BENEFICIALLY	2,775,402
REPORTING PERSON	SOLE DISPOSITIVE POWER
WITH 8	SHARED DISPOSITIVE POWER
	2,775,402
9 AGGREGATE AMOUNT	T BENEFICIALLY OWNED BY EACH REPORTING PERSON
2,775,402	
10 CHECK BOX IF THE	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
	I_I
11 PERCENT OF CLASS	S REPRESENTED BY AMOUNT IN ROW (9)
5.04%	
12 TYPE OF REPORTIN	NG PERSON*
IN	
	*SEE INSTRUCTIONS BEFORE FILLING OUT

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NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON			
William Crous	se		
	PROPRIATE BOX IF A MEMBER OF A GROUP*	a) _ b) _	
3 SEC USE ONLY			
4 CITIZENSHIP	OR PLACE OF ORGANIZATION		
United States	S		
	5 SOLE VOTING POWER		
NUMBER OF	6 SHARED VOTING POWER		
SHARES BENEFICIALLY	2,775,402		
OWNED BY EACH REPORTING PERSON	7 SOLE DISPOSITIVE POWER		
WITH	8 SHARED DISPOSITIVE POWER		
	2,775,402		
9 AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
2,775,402			
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)		
5.04%			
12 TYPE OF REPOR			
IN			
	*SEE INSTRUCTIONS BEFORE FILLING OUT		

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1 NAME OF REPOR S.S. OR I.R.S		PERSON NTIFICATION NO. OF ABOVE PERSON		
John W. Littl	Lechil			
2 CHECK THE APP	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) _			
3 SEC USE ONLY				
4 CITIZENSHIP 0	DR PLA	CE OF ORGANIZATION		
United States	6			
	5	SOLE VOTING POWER		
	6	SHARED VOTING POWER		
SHARES BENEFICIALLY OWNED BY		2,775,402		
	7	SOLE DISPOSITIVE POWER		
WITH	8	SHARED DISPOSITIVE POWER		
		2,775,402		
9 AGGREGATE AMO	DUNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON		
2,775,402				
10 CHECK BOX IF		GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
			$l_{-}l$	
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
5.04%				
12 TYPE OF REPOR	RTING	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, 2000: HCV II and HCP II beneficially owned 127,395 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 2,775,402 Shares, consisting of 2,269,045 Shares of the Issuer's Common Stock and immediately exercisable warrants to purchase 506,357 Shares of the Issuer's Common Stock.

(b) Percent of Class:

As of December 31, 2000: the 127,395 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 .23% 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 3.72% 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 1.09% of the Issuer's Shares outstanding; the 2,775,402 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 5.04% 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:

Inapplicable.

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

Dated: February 2, 2001 HealthCare Ventures II, L.P.,

by its General Partner, HealthCare Partners II, L.P. Princeton, New Jersey

By: /s/ Jeffrey Steinberg

Administrative Partner

Dated: February 2, 2001 HealthCare Partners II, L.P.

Princeton, New Jersey

By: /s/ Jeffrey Steinberg

Administrative Partner

Dated: February 2, 2001 HealthCare Ventures III, L.P.,

Princeton, New Jersey by its General Partner, HealthCare Partners III, L.P.

By: /s/ Jeffrey Steinberg

Administrative Partner

Dated: February 2, 2001 HealthCare Partners III, L.P.

Princeton, New Jersey By: /s/ Jeffrey Steinberg

.

Administrative Partner

Dated: February 2, 2001 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 2, 2001 HealthCare Partners IV, L.P.

Princeton, New Jersey

By: /s/ Jeffrey Steinberg

Administrative Partner

Dated: February 2, 2001 By: /s/ Jeffrey Steinberg, Attorney-in-Fact

Princeton, New Jersey

James H. Cavanaugh, Ph.D.

Dated: February 2, 2001 By: /s/ Jeffrey Steinberg, Attorney-in-Fact

Princeton, New Jersey

Harold R. Werner

Dated: February 2, 2001 Cambridge, Massachusetts

By: /s/ Jeffrey Steinberg, Attorney-in-Fact

John W. Littlechild

Dated: February 2, 2001 Princeton, New Jersey

By: /s/ Jeffrey Steinberg, Attorney-in-Fact

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 2, 2001 HealthCare Ventures II, L.P.,

Princeton, New Jersey by its General Partner, HealthCare

Partners II, L.P.

By: /s/ Jeffrey Steinberg

Administrative Partner

Dated: February 2, 2001 HealthCare Partners II, L.P.

Princeton, New Jersey

By: /s/ Jeffrey Steinberg

Administrative Partner

Dated: February 2, 2001 HealthCare Ventures III, L.P.,

Princeton, New Jersey by its General Partner, HealthCare

Partners III, L.P.

By: /s/ Jeffrey Steinberg

Administrative Partner

Dated: February 2, 2001 HealthCare Partners III, L.P.

Princeton, New Jersey
By: /s/ Jeffrey Steinberg

Administrative Partner

Dated: February 2, 2001 HealthCare Ventures IV, L.P.,

Princeton, New Jersey by its General Partner, HealthCare

Partners IV, L.P.

By: /s/ Jeffrey Steinberg

.....

Administrative Partner

Dated: February 2, 2001 HealthCare Partners IV, L.P. Princeton, New Jersey

By: /s/ Jeffrey Steinberg

.....

Administrative Partner

Dated:	February 2, 2001 Princeton, New Jersey	By:	/s/ Jeffrey Steinberg, Attorney-in-Fact James H. Cavanaugh, Ph.D.
Dated:	February 2, 2001 Princeton, New Jersey	Ву:	/s/ Jeffrey Steinberg, Attorney-in-Fact Harold R. Werner
Dated:	February 2, 2001 Cambridge, Massachusetts	Ву:	/s/ Jeffrey Steinberg, Attorney-in-Fact John W. Littlechild
Dated:	February 2, 2001 Princeton, New Jersey	By:	/s/ Jeffrey Steinberg, Attorney-in-Fact