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) AND (c)
AND AMENDMENTS THERETO FILED
PURSUANT TO 13d-2(b)

(Amendment No.)*

AVANT Immunotherapeutics, Inc.	
(Name of Issuer)	
Common Stock, \$.001 par value	
Common Stock, \$.001 par value	
(Title of Class of Securities)	
053491106	
(CUSIP Number)	
August 21, 1998	
(Date of Event Which Requires Filing of this Statement)	

* 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 required in 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 ("Act") 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).

(Continued on following page(s))
 Page 1 of 20 Pages

CUSIP NO.	053491106	13G	Page 2 of 20 Pages
1	NAME OF REPORTIONS.S. OR I.R.S.	NG PERSON IDENTIFICATION NUMBER O	F ABOVE PERSON
	HealthCare Vent	ures II, L.P.	
2		PRIATE BOX IF A MEMBER	(d)
3	SEC USE ONLY		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
	Delaware		
		5 SOLE VOTING P	OWER
_	IBER OF		
BENEF	IARES FICIALLY	6 SHARED VOTING	POWER
E	IED BY EACH	2,318,706	
PE	REPORTING PERSON WITH	7 SOLE DISPOSIT	
		8 SHARED DISPOS	ITIVE POWER
		2,318,706	
9	AGGREGATE AMOUN	T BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	2,318,706		
10	CHECK BOX IF THI SHARES*	E AGGREGATE AMOUNT IN R	OW (9) EXCLUDES CERTAIN
			[]
11	PERCENT OF CLASS	S REPRESENTED BY AMOUNT	IN ROW 9
	5 . 5%		
12	TYPE OF REPORTI		
	PN		
	*SEE	INSTRUCTION BEFORE FIL	LING OUT!

CUSIP NO.	053491106	13G	Page 3 of 20 Pages
1	NAME OF REPORTING	NG PERSON IDENTIFICATION NUMBER O	F ABOVE PERSON
	HealthCare Parti	ners II, L.P.	
2		PRIATE BOX IF A MEMBER	(d)
3	SEC USE ONLY		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
	Delaware		
		5 SOLE VOTING P	
_	IBER OF		
SHARES BENEFICIALLY		6 SHARED VOTING	POWER
E	IED BY EACH	2,318,706	
PE	REPORTING PERSON WITH	7 SOLE DISPOSIT	
		8 SHARED DISPOS	ITIVE POWER
		2,318,706	
9	AGGREGATE AMOUN	T BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	2,318,706		
10	CHECK BOX IF THI SHARES*		OW (9) EXCLUDES CERTAIN
	OTH INEO		[]
11	PERCENT OF CLASS	S REPRESENTED BY AMOUNT	IN ROW 9
	5.5%		
12	TYPE OF REPORTI		
	PN		
	*SEE	INSTRUCTION BEFORE FIL	LING OUT!

CUSIP NO.	053491106		13G I	Page 4 of 20 Pa	ages	
1	NAME OF REPORTING			PERSON		
	HealthCare Ventu	ures III	I, L.P.			
2		CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) [] (b) []				
3	SEC USE ONLY					
4	CITIZENSHIP OR F		ORGANIZATION			
	Delaware					
			SOLE VOTING POWER			
	IBER OF					
BENEF	IARES FICIALLY	6	SHARED VOTING POWER			
Е	IED BY EACH		2,055,505			
	PORTING ERSON					
	WITH	7	SOLE DISPOSITIVE POWER	R		
		8	SHARED DISPOSITIVE PO	WER		
			2,055,505			
9	AGGREGATE AMOUN	T BENEF	CCIALLY OWNED BY EACH REI	PORTING PERSON		
	2,055,505					
10		E AGGRE	GATE AMOUNT IN ROW (9) EX	XCLUDES CERTAIN	J	
	SHARES*					[]
	DEDCENT OF CLASS		CENTED DV AMOUNT IN DOLL			
11		S REPRES	SENTED BY AMOUNT IN ROW S	9		
	4.8%					
12	TYPE OF REPORTIN	NG PERS(JN ^			
	PN					
	*SEE	INSTRUC	CTION BEFORE FILLING OUT	!		

CUSIP NO.	053491106		13G	Page 5 of 20	Pages	
1	NAME OF REPORTING			PERSON		
	HealthCare Parti		I, L.P.			
2	CHECK THE APPROI	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) [] (b) []				
3	SEC USE ONLY					
4	CITIZENSHIP OR I		ORGANIZATION			
	Delaware					
			SOLE VOTING POWER			
	IBER OF					
BENEF	IARES FICIALLY	6	SHARED VOTING POWER			
E	IED BY EACH		2,055,505			
	PORTING ERSON					
	WITH	7	SOLE DISPOSITIVE POWE	iR		
		8	SHARED DISPOSITIVE PO)WER		
			2,055,505			
9	AGGREGATE AMOUN	T BENEF	ICIALLY OWNED BY EACH RE	PORTING PERSO	N	
	2,055,505					
10		E AGGRE	GATE AMOUNT IN ROW (9) E	XCLUDES CERTA	IN	
	SHARES*					[]
	DEDOENT OF 01 40		SENTED BY AMOUNT THE POLY			
11		S REPRES	SENTED BY AMOUNT IN ROW	9		
	4.8%					
12	TYPE OF REPORTI	NG PERS	DN*			
	PN					
	*SEE	INSTRUC	CTION BEFORE FILLING OUT	.i		

CUSIP NO.	053491106	13G	Page 6 of 20 Pages
1	NAME OF REPORTIN	NG PERSON IDENTIFICATION NUMBER O	F ABOVE PERSON
	HealthCare Ventu	ures IV, L.P.	
2		PRIATE BOX IF A MEMBER ((d)
3	SEC USE ONLY		
4	CITIZENSHIP OR F	PLACE OF ORGANIZATION	
	Delaware		
		5 SOLE VOTING PO	
	IBER OF		
SHARES BENEFICIALLY		6 SHARED VOTING	POWER
E	IED BY EACH	603,622	
PE	PORTING ERSON WITH	7 SOLE DISPOSIT	
		8 SHARED DISPOS	ITIVE POWER
		603,622	
9	AGGREGATE AMOUNT	T BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	603,622		
10	CHECK BOX IF THE SHARES*	E AGGREGATE AMOUNT IN RO	OW (9) EXCLUDES CERTAIN
	0.0 m.=0		[]
11	PERCENT OF CLASS	S REPRESENTED BY AMOUNT	IN ROW 9
	1.4%		
12	TYPE OF REPORTIN		
	PN		
	*SEE	INSTRUCTION BEFORE FIL	LING OUT!

CUSIP NO.	053491106	13G	Page 7 of 20 Pages
1	NAME OF REPORTIN	NG PERSON IDENTIFICATION NUMBER O	F ABOVE PERSON
	HealthCare Partr	ners IV, L.P.	
2		PRIATE BOX IF A MEMBER	(d)
3	SEC USE ONLY		
4	CITIZENSHIP OR F	PLACE OF ORGANIZATION	
	Delaware		
		5 SOLE VOTING P	
	IBER OF		
SHARES BENEFICIALLY		6 SHARED VOTING	POWER
E	IED BY	603,622	
PE	PORTING PRSON WITH	7 SOLE DISPOSIT	IVE POWER
		8 SHARED DISPOS	ITIVE POWER
		603,622	
9	AGGREGATE AMOUNT	T BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	603,622		
10	CHECK BOX IF THE SHARES*	E AGGREGATE AMOUNT IN R	OW (9) EXCLUDES CERTAIN
	OW WED		[]
11	PERCENT OF CLASS	S REPRESENTED BY AMOUNT	IN ROW 9
	1.4%		
12	TYPE OF REPORTIN		
	PN		
	*SEE	INSTRUCTION BEFORE FIL	LING OUT!

CUSIP NO.	053491106	13G	Page 8 of 20 Pages
1	NAME OF REPORTII S.S. OR I.R.S.	NG PERSON IDENTIFICATION NUMBER O	F ABOVE PERSON
	James H. Cavanaı	ugh, Ph.D.	
2		PRIATE BOX IF A MEMBER	(d)
3	SEC USE ONLY		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
	United States		
		5 SOLE VOTING P	
SH	IBER OF IARES	6 SHARED VOTING	DOMED
BENEFICIALLY OWNED BY EACH			FOWER
REF	PORTING ERSON	4,977,833	
	WITH	7 SOLE DISPOSIT	IVE POWER
		8 SHARED DISPOS	ITIVE POWER
		4,977,833	
9	AGGREGATE AMOUN	T BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	4,977,833		
10	CHECK BOX IF THE SHARES*	E AGGREGATE AMOUNT IN R	OW (9) EXCLUDES CERTAIN
			[]
11	PERCENT OF CLASS	REPRESENTED BY AMOUNT	IN ROW 9
	11.7%		
12	TYPE OF REPORTI		
	PN		
	*SEE	INSTRUCTION BEFORE FIL	LING OUT!

CUSIP NO.	053491106	13G	Page 9 of 20 Pages
1	NAME OF REPORTIF	NG PERSON IDENTIFICATION NUMBER O	F ABOVE PERSON
	Harold R. Werne		
2		PRIATE BOX IF A MEMBER	(b) []
3	SEC USE ONLY		
4	CITIZENSUID OD I	 PLACE OF ORGANIZATION	
4		PLACE OF ORGANIZATION	
	United States		
		5 SOLE VOTING P	OWER
	IBER OF		
SHARES BENEFICIALLY OWNED BY EACH		6 SHARED VOTING	POWER
		4,977,833	
	PORTING ERSON		
	WITH	7 SOLE DISPOSIT	IVE POWER
		8 SHARED DISPOS	TITVE DOWED
			ITIVE POWER
		4,977,833 	
9	AGGREGATE AMOUN	T BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	4,977,833		
10	CHECK BOX IF THE SHARES*	E AGGREGATE AMOUNT IN R	OW (9) EXCLUDES CERTAIN
	SHARLS		[]
11	PERCENT OF CLASS	S REPRESENTED BY AMOUNT	IN ROW 9
	11.7%		
12	TYPE OF REPORTI	NG PERSON*	
	IN		
	*SEE	INSTRUCTION BEFORE FIL	LING OUT!

CUSIP NO.	053491106	13G	Page 10 of 20 Pages
1	NAME OF REPORTI S.S. OR I.R.S.	NG PERSON IDENTIFICATION NUMBER OF	- ABOVE PERSON
	William Crouse		
2		PRIATE BOX IF A MEMBER C	(d)
3	SEC USE ONLY		
4	CITIZENSUID OD	 PLACE OF ORGANIZATION	
7		LACE OF ORGANIZATION	
	United States		
		5 SOLE VOTING PO	DWER
	MBER OF HARES		
BENE	FICIALLY	6 SHARED VOTING	POWER
	NED BY EACH	4,977,833	
	PORTING ERSON		
•	WITH	7 SOLE DISPOSITI	IVE POWER
		0 000000	TTVE 00/50
		8 SHARED DISPOSI	LIIVE POWER
		4,977,833 	
9	AGGREGATE AMOUN	T BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	4,977,833		
10		E AGGREGATE AMOUNT IN RO	
	SHARES*		[]
11	PERCENT OF CLASS	S REPRESENTED BY AMOUNT	IN ROW 9
	11.7%		
12	TYPE OF REPORTI		
	IN		
	*SEE	INSTRUCTION BEFORE FILL	-ING OUT!

CUSIP NO.	053491106	13G	Page 11 of 20 Pages
1	NAME OF REPORTI S.S. OR I.R.S.	NG PERSON IDENTIFICATION NUMBER OF	ABOVE PERSON
	John W. Littlec		
2		PRIATE BOX IF A MEMBER O	(d)
3	SEC USE ONLY		
4	CITIZENCUID OD	PLACE OF ORGANIZATION	
4		PLACE OF ORGANIZATION	
	United States		
		5 SOLE VOTING PO	DWER
	JMBER OF SHARES		
BENE	FICIALLY	6 SHARED VOTING	POWER
OV	NED BY EACH	4,977,833	
	EPORTING PERSON		
	WITH	7 SOLE DISPOSITI	VE POWER
		8 SHARED DISPOSI	TIVE POWER
		4,977,833	
9	AGGREGATE AMOUN	T BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	4,977,833		
10		E AGGREGATE AMOUNT IN RO	
	SHARES*		[]
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT	IN ROW 9
	11.7%		
12	TYPE OF REPORTI		
	IN		
	*SEE	INSTRUCTION BEFORE FILL	ING OUT!

CUSIP NO.	053491106	13G	Page 12 of 20 Pages
1	NAME OF REPORT	ING PERSON IDENTIFICATION NUMBER OF	- ABOVE PERSON
	Mark Leschly		
2		OPRIATE BOX IF A MEMBER ((d)
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	United States		
		5 SOLE VOTING PO	
_	MBER OF		
SHARES BENEFICIALLY OWNED BY EACH		6 SHARED VOTING	POWER
		2,659,127	
PE	REPORTING PERSON WITH	7 SOLE DISPOSITI	
		8 SHARED DISPOSI	ITIVE POWER
		2,659,127	
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY	EACH REPORTING PERSON
	2,659,127		
10	CHECK BOX IF THE	HE AGGREGATE AMOUNT IN RO	
	SHARLS		[]
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT	
	6.3%		
12	TYPE OF REPORT		
	IN		
	*SEE	INSTRUCTION BEFORE FILL	

(a) Name of Issuer:

AVANT Immunotherapeutics, Inc.

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

119 Fourth Avenue Needham, MA 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, Crouse and Leschly. See attached Exhibit A which is a copy of their agreement in writing to file this statement on behalf of each of them.(1)

(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, Dr. Cavanaugh and Messrs. Werner and Crouse is 44 Nassau Street, Princeton, New Jersey 08542. The business address for Messrs. Littlechild and Leschly 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, Crouse and Leschly are each United States citizens.

(1) Dr. Cavanaugh and Messrs. Werner, Littlechild and Crouse are general partners of HCP II, which is the general partner of HCV II, the record holder of 2,318,706 shares of Issuer's securities reported hereto. Dr. Cavanaugh and Messrs. Werner, Littlechild, Crouse and Leschly are general partners of each of HCP III and HCP IV, which are the general partner of HCV III and HCV IV, respectively, the record holder of 2,055,505 and 603,622 shares of Issuer's securities, respectively, reported hereto.

(d) Title of Class of Securities:

Common Stock, par value \$.001 ("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 August 21, 1998: HCV II and HCP II beneficially owned 2,318,706 Shares of Issuer's Securities, consisting of 2,052,711 Shares of Issuer's Common Stock and immediately execisable warrants to purchase 1,264,995 Shares of Issuer's Common Stock; HCV III and HCP III beneficially owned 2,055,505 Shares of Issuer's Securities, consisting of 1,753,972 Shares of Issuer's Common Stock and immediately execisable warrants to purchase 301,533 Shares of Issuer's Common Stock; HCV IV and HCP IV beneficially owned 603,622 Shares of Issuer's Securities, consisting of 515,074 Shares of Issuer's Common Stock and immediately execisable warrants to purchase 88,548 Shares of Issuer's Common Stock; Dr. Littlechild, Messrs. Cavanaugh, Werner and Crouse each beneficially owned 4,977,833 Shares of the Issuer's Securities, consisting of 1,203,021 Shares of Issuer's Common Stock and immediately execisable warrants to purchase 141,216 Shares of Issuer's Common Stock; and Mr. Leschly beneficially owned 2,659,127 Shares of Issuer's Securities, consisting of 2,269,046 Shares of Issuer's Common Stock and immediately execisable warrants to purchase 390,081 Shares of Issuer's Common Stock.

(b) Percent of Class:

As of August 21, 1998: the 2,318,706 Shares of Issuer's Securities beneficially owned by HCV II and HCP II constitute 5.5% of Issuer's Shares outstanding; the 2,055,505 Shares of Issuer's Securities beneficially owned by HCV III and HCP III constitute 4.8% of Issuer's Shares outstanding; the 603,622 Shares of Issuer's Securities beneficially owned by HCV IV and HCP IV constitute 1.4% of Issuer's Shares outstanding; the 4,977,833 Shares of Issuers Securities beneficially owned by each of Dr. Littlechild and Messrs. Crouse, Werner and Cavanaugh constitute 11.7% of Issuer's Shares outstanding; and the 2,659,127 Shares of Issuer's Securities beneficially owned by Mr. Leschly constitute 6.3% of Issuer's Shares outstanding.

(c) Number of shares as to which such person has:

Inapplicable

(i) sole power to vote or to direct the vote:

(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, Crouse and Leschly 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, Crouse and Leschly 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:

Inapplicable

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

HCV II, HCP II, Dr. Cavanaugh and Messrs. Werner, Littlechild and Crouse 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, Crouse and Leschly 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, Crouse and Leschly 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 9. Notice of Dissolution of Group:

Inapplicable.

Item 10. Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to below were not acquired and were not held for purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having

that purpose or effect.

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: August 31, 1998 HealthCare Ventures II, L.P.,

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

By: /s/ Jeffrey Steinberg
Jeffrey Steinberg

Jeffrey Steinberg Administrative Partner

Dated: August 31, 1998 HealthCare Partners II, L.P.

Princeton, New Jersey

By: /s/ Jeffrey Steinberg

Jeffrey Steinberg

Administrative Partner

Dated: August 31, 1998 HealthCare Ventures III, L.P.,

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

By: /s/ Jeffrey Steinberg
Jeffrey Steinberg

Jeffrey Steinberg Administrative Partner

Dated: August 31, 1998 HealthCare Partners III, L.P. Princeton, New Jersey

By: /s/ Jeffrey Steinberg

Jeffrey Steinberg

Administrative Partner

Dated: August 31, 1998 HealthCare Ventures IV, L.P.,

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

By: /s/ Jeffrey Steinberg

Jeffrey Steinberg Administrative Partner

Dated: August 31, 1998 HealthCare Partners IV, L.P.

Princeton, New Jersey
By: /s/ Jeffrey Steinberg

Jeffrey Steinberg
Administrative Partner

Dated: August 31, 1998 By: *

Princeton, New Jersey

James H. Cavanaugh, Ph.D.

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Dated:	August 31, 1998 Princeton,	Now Jorsov	By:	*
		New Jersey		Harold R. Werner
Dated:	August 31, 1998 Cambridge,	Massachusatts	Ву:	*
		riassaciiusetts	John W. Littlechild	
Dated:	August 31, 1998 Princeton,	New Jersey	Ву:	*
				William Crouse
Dated:	August 31, 1998 Cambridge,	Massachusatts	Ву:	*
		Massachusetts		Mark Leschly

 $^{^{\}star}\text{Signed}$ by Jeffrey Steinberg as Attorney-in-Fact pursuant to the Power of Attorney filed previously and incorporated herein by reference.

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 Magainin Pharmaceuticals, Inc. and hereby affirm that such Schedule 13G is being filed on behalf of each of the undersigned.

Dated: August 31, 1998 HealthCare Ventures II, L.P.,
Princeton, New Jersey by its General Partner,

HealthCare Partners V, L.P.,

By: /s/ Jeffrey Steinberg

Jeffrey Steinberg Administrative Partner

Dated: August 31, 1998 HealthCare Partners II, L.P.

Princeton, New Jersey
By: /s/ Jeffrey Steinberg

Jeffrey Steinberg

Administrative Partner

Dated: August 31, 1998 HealthCare Ventures III, L.P.,

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

By: /s/ Jeffrey Steinberg

Jeffrey Steinberg Administrative Partner

Dated: August 31, 1998 HealthCare Partners III, L.P. Princeton, New Jersey

By: /s/ Jeffrey Steinberg

Jeffrey Steinberg Administrative Partner

Dated: August 31, 1998 HealthCare Ventures IV, L.P.,

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

By: /s/ Jeffrey Steinberg

Jeffrey Steinberg Administrative Partner

Dated: August 31, 1998 HealthCare Partners IV, L.P. Princeton, New Jersey

By: /s/ Jeffrey Steinberg

Jeffrey Steinberg Administrative Partner

Dated: August 31, 1998 By: *

Princeton, New Jersey

James H. Cavanaugh, Ph.D.

Page 20 of 20

Dated:	August 31, 1998 Princeton,	New Jersey	Ву:	* Harold R. Werner
Dated:	August 31, 1998 Cambridge,	Massachusetts	Ву:	* John W. Littlechild
Dated:	August 31, 1998 Princeton,	New Jersey	Ву:	* William Crouse
Dated:	August 31, 1998 Cambridge,	Massachusetts	Ву:	* Mark Leschly

^{*}Signed by Jeffrey Steinberg as Attorney-in-Fact