MEDICINES CO/ MA Form SC 13G/A April 10, 2002

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

SCHEDULE 13G (Amendment No. \_2\_) \*

UNDER THE SECURITIES EXCHANGE ACT OF 1934

THE MEDICINES COMPANY
(Name of Issuer)
Common Stock
(Title of Class of Securities)
58468810
(CUSIP Number)

CUSIP No. 58468810 Page 2 c (1) Names of Reporting Persons. SS or I.R.S. Identification Nos. of Above Persons Alta Partners \_\_\_\_\_\_ (2) Check The Appropriate Box If A Member Of A Group \_\_\_\_\_\_ (3) SEC Use Only (4) Citizenship or Place of Organization California EXIT FILING --- Please see Attachment A Number Of Shares (5) Sole Voting Power Beneficially Owned By Each Reporting Shared Voting Power (6) Person With (7) Sole Dispositive Power (8) Shared Dispositive Power

(9) Aggregate Amount Beneficially Owned By Each Reporting Person

	837,906	EXIT FILING Please see Attachment A		
(10)	Check If The Aggregate Amount In Row (11) Excludes Certain Shares*			
(11)		sented By Amount In Row (11)		
	2.4%	EXIT FILING Please see Attachment A		
(12)	Type Of Reporting Perso			
	IA			
		*SEE INSTRUCTION BEFORE FILLING OUT!		
CUSIP N	0.58468810		Page 3 (	
(1) N	ames of Reporting Persons	s. SS or I.R.S. Identification Nos. of Above Persons		
	Alta BioPharma Partners	s, L.P.		
(2) C	heck The Appropriate Box		(a) (b)	
(3)	SEC Use Only			
(4)	Citizenship or Place of	f Organization		
	Delaware			
		EXIT FILING Please see Attachment A		
	Of Shares	(5) Sole Voting Pow	er	
	Reporting	(6) Shared Voting P	ower	
1010011	n zen	(7) Sole Dispositiv	e Power	
		(8) Shared Disposit	ive Power	
(9)	Aggregate Amount Benefi	icially Owned By Each Reporting Person		
	837,906	EXIT FILING Please see Attachment A		
(10)	Check If The Aggregate	Amount In Row (11) Excludes Certain Shares*		
(11)		sented By Amount In Row (11)		
	2.4%	EXIT FILING Please see Attachment A		
(12)				

ΡN

CUSIP No	o. 58468810			Page 4 o
(1) No	ames of Reporting Persons.	SS or I.R.S. Identificat	ion Nos.	of Above Persons
	Alta BioPharma Management			
(2) Cl	heck The Appropriate Box If			(a) (b) X
(3)	SEC Use Only			
(4)	Citizenship or Place of C			
	Delaware			
		EXIT FILING E	Please see	Attachment A
	Of Shares		(5)	Sole Voting Power
By Each	ially Owned Reporting		(6)	Shared Voting Power
Person N	With		(7)	Sole Dispositive Power
			(8)	Shared Dispositive Power
(9)	Aggregate Amount Benefici	ally Owned By Each Report	ing Perso	n
	837,906	EXIT FILING F	Please see	Attachment A
(10)	Check If The Aggregate Am			Shares*
(11)	Percent Of Class Represer	nted By Amount In Row (11)		
	2.4%	EXIT FILING F		Attachment A
(12)				
	CO			

CUSIP No. 58468810 Page 5 c

(1) Names of Reporting Persons. SS or I.R.S. Identification Nos. of Above Persons

	The Medicines Company Ch		, LLC			
(2)	Check The Appropriate Box I	f A Member Of A Group			(a) (b)	Σ
(3)	SEC Use Only					
	Citizenship or Place of					
	Delaware					
		EXIT FILING	Please see A			
	Of Shares		(5)	Sole Voting Pov	ver	
By Eacl	cially Owned h Reporting		(6)	Shared Voting E	ower	
Person	With		(7)	Sole Dispositiv	ve Power	
			(8)	Shared Disposit	ive Pow	er
(9)	Aggregate Amount Benefic	ially Owned By Each Rep	porting Person			
	837,906		Please see			
(10)	Check If The Aggregate A					
(11)		nted By Amount In Row				
	2.4%	EXIT FILING	Please see A			
(12)	Type Of Reporting Person					
	CO					
	V 50460010					
CUSIP	No. 58468810				Page	6 01
(1)	Names of Reporting Persons.					
	Alta Embarcadero BioPhar					
	Check The Appropriate Box I	f A Member Of A Group			(a) (b)	Σ
(3)	SEC Use Only					
	Citizenship or Place of					
	California					

EXIT FILING --- Please see Attachment A

	Of Shares		(5)	Sole Voting Power
By Each	ially Owned Reporting		(6)	Shared Voting Power
Person N	With		(7)	Sole Dispositive Power
			(8)	Shared Dispositive Power
(9)	Aggregate Amount Beneficially Own	ned By Each Repo	rting Persor	n
	837,906	EXIT FILING		
(10)		Row (11) Exclud	les Certain S	Shares*
(11)	Percent Of Class Represented By P			
	2.4%	EXIT FILING	Please see	Attachment A
(12)	Type Of Reporting Person			
	СО			
CUSIP No	o. 58468810			Page 7 of
	o. 58468810			Page 7 of
		I.R.S. Identific	ation Nos. o	of Above Persons
(1) Na	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Membe	I.R.S. Identific	ation Nos. o	of Above Persons  (a) (b)
(1) No	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Membe	LLC  er Of A Group	ation Nos. o	of Above Persons  (a) (b)
(1) No	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Membe	I.R.S. Identific	ation Nos. o	of Above Persons  (a) (b) X
(1) No	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Membe  SEC Use Only  Citizenship or Place of Organizat	I.R.S. Identific	ation Nos. o	of Above Persons  (a) (b) X
(1) No	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Membe  SEC Use Only  Citizenship or Place of Organizat  Delaware	LLC er Of A Group	ation Nos. o	(a) (b) X
(1) No	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Member SEC Use Only  Citizenship or Place of Organizate  Delaware	LLC  er Of A Group  cion	eation Nos. o	(a) (b) X Attachment A
(1) Na (2) Cl (3) (4)  Number ( Benefic:	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Member SEC Use Only  Citizenship or Place of Organizate  Delaware  Of Shares ially Owned	LLC er Of A Group	ation Nos. o	(a) (b) X
(1) Na (2) Cl (3) (4)  Number (Benefic:	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Member SEC Use Only  Citizenship or Place of Organizate  Delaware  Of Shares ially Owned Reporting	LLC er Of A Group	eation Nos. o	(a) (b) X Attachment A
(1) Na (2) Cl (3) (4)  Number (Benefic: By Each	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Member SEC Use Only  Citizenship or Place of Organizate  Delaware  Of Shares ially Owned Reporting	LLC er Of A Group	Please see	(a) (b) X  Attachment A  Sole Voting Power
(1) Na (2) Cl (3) (4)  Number (Benefic: By Each	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Member SEC Use Only  Citizenship or Place of Organizate  Delaware  Of Shares ially Owned Reporting	LLC er Of A Group	Please see (5) (6)	Attachment A  Sole Voting Power  Shared Voting Power
(1) Na (2) Cl (3) (4)  Number ( Benefic: By Each	ames of Reporting Persons. SS or I  Alta/Chase BioPharma Management,  heck The Appropriate Box If A Member SEC Use Only  Citizenship or Place of Organizate  Delaware  Of Shares ially Owned Reporting	LLC er Of A Group  Lion  EXIT FILING	Please see (5) (6) (7) (8)	Attachment A  Sole Voting Power  Shared Voting Power  Sole Dispositive Power  Shared Dispositive Power

(11)	Percent Of Class Represent	ed By Amount In Row (1	1)		
	2.4%	EXIT FILING			
(12)	Type Of Reporting Person				
	CO				
CUSIP N	o. 58468810				Page 8 d
(1) N	ames of Reporting Persons.	SS or I.R.S. Identific	ation Nos.	of Above Persons	
	Jean Deleage				
	heck The Appropriate Box If				(a) (b) >
	SEC Use Only				
	Citizenship or Place of Or				
	United States				
		EXIT FILING			
	Of Shares ially Owned		(5)	Sole Voting Pow	er
By Each	Reporting		(6)	Shared Voting P	ower
Person	with		(7)	Sole Dispositiv	e Power
			(8)	Shared Disposit	ive Power
(9)	Aggregate Amount Beneficia	ally Owned By Each Repo	rting Perso	n	
	848,078	EXIT FILING	Please see	Attachment A	
(10)	Check If The Aggregate Amo		es Certain	Shares*	
(11)	Percent Of Class Represent				
	2.4%	EXIT FILING			
	Type Of Reporting Person				
	IN				
		*SEE INSTRUCTI			

6

CUSIP No	o. 58468810				Page 9
(1) Na	ames of Reporting Persons. SS			of Above Persons	
	Garrett Gruener				
(2) Cl	neck The Appropriate Box If A M	Member Of A Group			(a) (b)
(3)	SEC Use Only				
	Citizenship or Place of Organ				
	United States				
		EXIT FILING Plea			
	Of Shares		(5)	Sole Voting Powe	r
By Each	ially Owned Reporting		(6)	Shared Voting Po	wer
Person V	With		(7)	Sole Dispositive	Power
			(8)	Shared Dispositi	ve Power
(9)	Aggregate Amount Beneficially	y Owned By Each Reporting	Perso	on	
		EXIT FILING Plea			
(10)	Check If The Aggregate Amount				
(11)	Percent Of Class Represented				
	2.5%	EXIT FILING Plea			
(12)	Type Of Reporting Person				
	IN				
		*SEE INSTRUCTION BEF	ORE FI	LLING OUT!	
CUSTP N	o. 58468810				Page 10
	ames of Reporting Persons. SS  Daniel Janney				
(2) Cl		Member Of A Group			(a) (b)

(3)	SEC Use Only			
(4)	Citizenship or Place of	Organization		
	United States			
		EXIT FILING F		
	Of Shares		(5)	Sole Voting Power
By Each	ially Owned Reporting		(6)	Shared Voting Power
Person	With		(7)	Sole Dispositive Power
			(8)	Shared Dispositive Pow
(9)	Aggregate Amount Benefic	ially Owned By Each Report	ing Person	n
	855,976	EXIT FILING F	lease see	Attachment A
(10)	Check If The Aggregate A	mount In Row (11) Excludes	Certain	Shares*
(11)	Percent Of Class Represe	nted By Amount In Row (11)		
	2.5%	EXIT FILING F		
(12)				
	IN			
		*SEE INSTRUCTION	BEFORE FI	LLING OUT!
CUSIP N	0. 58468810			Page
(1) N	ames of Reporting Persons.	SS or I.R.S. Identificat	ion Nos.	of Above Persons
	Alix Marduel			
(2) C	heck The Appropriate Box I	_		(a) (b)
(3)	SEC Use Only			
	Citizenship or Place of			
	United States			
		EXIT FILING F		
	Of Shares		(5)	Sole Voting Power
	ially Owned Reporting With		(6)	Shared Voting Power

		(7) Sol	le Dispositive Power
		(8) Sha	ared Dispositive Power
(9)	Aggregate Amount Benefici	ally Owned By Each Reporting Person	
	855 <b>,</b> 976	EXIT FILING Please see Attac	chment A
(10)		nount In Row (11) Excludes Certain Shares	;*
(11)		ted By Amount In Row (11)	
	2.5%	EXIT FILING Please see Attac	
	Type Of Reporting Person		
	IN		
		*SEE INSTRUCTION BEFORE FILLING	
CUSIP 1	No. 58468810		Page 12 of 16 P
(1)	Names of Reporting Persons.	SS or I.R.S. Identification Nos. of Abo	
	Guy Nohra		
(2)	Check The Appropriate Box If	A Member Of A Group	(a) (b)
(3)			
(4)	Citizenship or Place of C	 Organization	
, ,	United States		
		EXIT FILING Please see Attac	
Number	Of Shares	(5) Sol	le Voting Power
	cially Owned h Reporting	(6) Sha	ared Voting Power
Person	With	(7) Sol	le Dispositive Power
		(8) Sha	ared Dispositive Power
(9)	Aggregate Amount Benefici	ally Owned By Each Reporting Person	
	851,157	EXIT FILING Please see Attac	
(10)	Check If The Aggregate Am	nount In Row (11) Excludes Certain Shares	s*
(11)		ted By Amount In Row (11)	

	2.5%		EXIT FILING Please see Attachment A
(12)	Type Of Reporting	Person	
	IN		
			*SEE INSTRUCTION BEFORE FILLING OUT!
Item 1.			
(a)	Name of Issuer: T	he Medicines Cor	mpany ("Issuer")
(b)	Address of Issuer	's Principal Exe	ecutive Offices:
		oridge Center re, MA 02142	
Item 2.			
(a)	Name of Person Fi	ling:	
	Alta Partners ("A Alta BioPharma Pa Alta BioPharma Ma Alta Embarcadero The Medicines Com Alta/Chase BioPha Jean Deleage ("JE Garrett Gruener ( Dan Janney ("DJ") Alix Marduel ("AM Guy Nohra ("GN")	rtners, L.P. ("A nagement Partner BioPharma Partner pany Chase Partner rma Management, "") "GG")	rs, LLC. ("ABMP") ers, LLC ("AEBP") ners (Alta Bio), LLC ("MCCP")
(b)	Address of Princi	pal Business Of	fice:
	One Embarcadero C San Francisco, CA		50
(C)	Citizenship/Place	of Organization	n:
	Entities:	AP ABP ABMP AEBP MCCP ACMP	California Delaware Delaware California Delaware Delaware
	Individuals:	JD GG DJ AM GN	United States United States United States United States United States United States
(d)	Title of Class of	Securities:	Common Stock

(e) CUSIP Number: 58468810

(f) Item 3. Not applicable.

Item 4. Ownership.

		EXIT FILING Please see Attachment A				
		AP	ABP 	ABMP	AEBP 	MCCP
(a)	Beneficial Ownership	837 <b>,</b> 906	837 <b>,</b> 906	837 <b>,</b> 906	837 <b>,</b> 906	837,906
(b)	Percentage of Class	2.4%	2.4%	2.4%	2.4%	2.4%
(c)	Sole Voting Power	-0-	-0- 	-0-	-0- 	-0-
	Shared Voting Power	837 <b>,</b> 906	837 <b>,</b> 906	837 <b>,</b> 906	837 <b>,</b> 906	837 <b>,</b> 906
	Sole Dispositive Power	-0-	-0- 	-0-	-0- 	-0-
	Shared Dispositive Power	837 <b>,</b> 906	837 <b>,</b> 906	837 <b>,</b> 906	837 <b>,</b> 906	837 <b>,</b> 906
		JD	GG	DJ	AM	GN
(a)	Beneficial Ownership	848,078	851 <b>,</b> 648	855 <b>,</b> 976	855 <b>,</b> 976	851 <b>,</b> 157
(b)	Percentage of Class	2.4%	2.5%	2.5%	2.5%	2.5%
(c)	Sole Voting Power					
	Shared Voting Power			837,906	837,906	837,906
	Sole Dispositive Power			18,070	18,070	13,251

Shared Dispositive Power 837,906 837,906 837,906 837,906 837,906

EXIT FILING

Item 5. Ownership of Five Percent or Less of a Class

Exit Filing

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

Not applicable.

Item 7. Identification and Classification of the Subsidiary, Which Acquired the Security Being Reported on By the Parent Holding

Company.

Not applicable.

Item 8. Identification and Classification of Members of the Group

Not Applicable.

Item 9. Notice of Dissolution of Group

Not applicable.

Item 10. Certification

By signing below we certify that, to the best of our knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the 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.

#### EXHIBITS

A: Joint Filing Statement

#### Signature

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.

Date: April 4, 2002

ALTA PARTNERS

ALTA BIOPHARMA PARTNERS, L.P.

		By: A	lta BioPharma Management Partners, I
Ву:	/s/ Jean Deleage	Ву:	/s/ Alix Marduel
	Jean Deleage, President		Alix Marduel, Managing Director
ALTA BI	OPHARMA MANAGEMENT PARTNERS, LLC	ALTA EI	MBARCADERO BIOPHARMA PARTNERS, LLC
By:	/s/ Alix Marduel	Ву:	/s/ Jean Deleage
	Alix Marduel, Member		Jean Deleage, Member
	ICINES COMPANYCHASE PARTNERS (ALTA BIO), LLC a/Chase BioPharma Management, LLC	ALTA/C	HASE BIOPHARMA MANAGEMENT, LLC
By:	/s/ Alix Marduel	By:	/s/ Alix Marduel
	Alix Marduel, Member		Alix Marduel, Member
	/s/ Jean Deleage		/s/ Guy Nohra
	Jean Deleage		Guy Nohra
	/s/ Garrett Gruener		/s/ Alix Marduel
	Garrett Gruener		Alix Marduel
	/s/ Daniel Janney		
	Daniel Janney		

#### EXHIBIT A

#### AGREEMENT OF JOINT FILING

We, the undersigned, hereby express our agreement that the attached Schedule 13G is filed on behalf of us.

Date: April 4, 2002

ALTA PARTNERS

ALTA BIOPHARMA PARTNERS, L.P.

		By:	Alta BioPharma Management Partners, I
Ву:	/s/ Jean Deleage	ву:	/s/ Alix Marduel
	Jean Deleage, President		Alix Marduel, Managing Director
ALTA B	IOPHARMA MANAGEMENT PARTNERS, LLC	ALTA	EMBARCADERO BIOPHARMA PARTNERS, LLC
Ву:	/s/ Alix Marduel	Ву: 	/s/ Jean Deleage
	Alix Marduel, Member		Jean Deleage, Member
THE MEDICINES COMPANYCHASE PARTNERS (ALTA BIO), LLC By: Alta/Chase BioPharma Management, LLC		ALTA/CHASE BIOPHARMA MANAGEMENT, LLC	
Ву:	/s/ Alix Marduel	By:	/s/ Alix Marduel
	Alix Marduel, Member		Alix Marduel, Member
	/s/ Jean Deleage		/s/ Guy Nohra
	Jean Deleage		Guy Nohra
	/s/ Garrett Gruener		/s/ Alix Marduel
	Garrett Gruener		Alix Marduel
	/s/ Daniel Janney		
	Daniel Janney		

#### Attachment A

#### EXIT FILING

Alta Partners provides investment advisory services to several venture capital funds including Alta BioPharma Partners, L.P., The Medicines Company Chase Partners (Alta Bio), LLC and Alta Embarcadero BioPharma Partners, LLC.

Stock Sale: On March 28, 2002, Alta BioPharma Partners, L.P. sold 41,958 shares of Common Stock, The Medicines Company Chase Partners (Alta Bio), LLC sold 23,961 shares of Common Stock, and Alta Embarcadero BioPharma Partners, LLC sold 1,581 shares of Common Stock. These shares were sold on the public stock market.

Stock Distribution: On April 2, 2002, Alta BioPharma Partners, L.P. distributed 1,041,792 shares of Common Stock to its general and limited partners. The Medicines Company Chase Partners (Alta Bio), LLC distributed 594,962 shares of Common Stock to its members. Alta Embarcadero BioPharma Partners, LLC distributed 39,265 shares of Common Stock to its members.

As a result of the Stock Sale and Stock Distribution Alta Partners is no longer a 5% owner of the Company: Alta BioPharma Partners, L.P. beneficially owns 341,844 shares of Common Stock and Warrants for 178,987 shares of Common Stock. The Medicines Company Chase Partners (Alta Bio), LLC beneficially owns 195,226 shares of Common Stock and Warrants for 102,218 shares of Common Stock. Alta Embarcadero BioPharma Partners, LLC beneficially owns 12,885 shares of Common Stock and Warrants for 6,746 shares of Common Stock. The respective general partners and managing members of Alta BioPharma Partners, L.P., The Medicines Company Chase Partners (Alta Bio), LLC and Alta Embarcadero BioPharma Partners, LLC exercise sole voting and investment power with respect to the shares owned by such funds.

Certain Principals of Alta Partners are managing directors of Alta BioPharma Management, LLC (the general partner of Alta BioPharma Partners, L.P.), managing members of Alta/Chase Management, LLC (the managing member of The Medicines Company Chase Partners (Alta Bio), LLC), and members of Alta Embarcadero BioPharma, LLC. As managing directors, managing members and members (respectively), they may be deemed to share voting and investment powers over the shares held by the funds. These principals disclaim beneficial ownership of all such shares held by the aforementioned funds, except to the extent of their proportionate pecuniary interests therein.

Mr. Jean Deleage is a managing director of Alta BioPharma Management, LLC (which is the general partner of Alta BioPharma Partners, L.P.), a managing director of Alta/Chase Management, LLC (which is the managing member of The Medicines Company Chase Partners (Alta Bio), LLC) and a member of Alta Embarcadero BioPharma Partners, LLC. Thus he shares voting and dispositive powers over the 341,844 shares of Common Stock and the Warrants for 178,987 shares of Common Stock beneficially owed by Alta BioPharma Partners, L.P.; the 195,226 shares of Common Stock and the Warrants for 102,218 shares of Common Stock beneficially owned by The Medicines Company Chase Partners (Alta Bio), LLC; and the 12,885 shares of Common Stock and the Warrants for 6,746 shares of Common Stock beneficially owned by Alta Embarcadero BioPharma Partners, LLC. Mr. Deleage disclaims beneficial ownership of the shares held by the aforementioned funds except to the extent of his proportionate pecuniary interests therein. On April 2, 2002, Mr. Deleage received 10,172 shares of Common Stock, which was his proportionate pecuniary interest in the stock distributions for Alta Embarcadero BioPharma Partners, LLC, Alta BioPharma Management, LLC and Alta/Chase BioPharma Management, LLC. See next page for disclosure of share ownership.

Page 1 of 3 of Attachment A

Page 2 of 3 of Attachment A

As of April 2, 2002  $\,\,$  --- Common Stock Ownership: Shares Owned by / Affiliated with Jean Deleage

Beneficial Owner (issued in the name of) # of Shares

Jean Deleage 10,172
Deleage Children's Trust FBO Andre Deleage (1) 2,711
Deleage Children's Trust FBO Emmanuel Deleage (1) 2,711

Date Acc

April 2,

April 2,

April 2,

Deleage Children's Trust FBO Phillippe Deleage (1) 2,711
Deleage Children's Trust FBO Michel Deleage (1) 2,710

April 2,

April 2,

(1) Of which Mr. Deleage, a principal of Alta Partners (a venture capital firm) is neither a trustee nor claims any beneficial ownership.

Mr. Garrett Gruener is a managing director of Alta BioPharma Management, LLC (which is the general partner of Alta BioPharma Partners, L.P.), a managing director of Alta/Chase Management, LLC (which is the managing member of The Medicines Company Chase Partners (Alta Bio), LLC) and a member of Alta Embarcadero BioPharma Partners, LLC. Thus he shares voting and dispositive powers over the 341,844 shares of Common Stock and the Warrants for 178,987 shares of Common Stock beneficially owed by Alta BioPharma Partners, L.P.; the 195,226 shares of Common Stock and the Warrants for 102,218 shares of Common Stock beneficially owned by The Medicines Company Chase Partners (Alta Bio), LLC; and the 12,885 shares of Common Stock and the Warrants for 6,746 shares of Common Stock beneficially owned by Alta Embarcadero BioPharma Partners, LLC. Mr. Gruener disclaims beneficial ownership of the shares held by the aforementioned funds except to the extent of his proportionate pecuniary interests therein. On April 2, 2002, Mr. Gruener received 13,742 shares of Common Stock, which was his proportionate pecuniary interest in the stock distributions for Alta Embarcadero BioPharma Partners, LLC, Alta BioPharma Management, LLC and Alta/Chase BioPharma Management, LLC.

Mr. Daniel Janney is a managing director of Alta BioPharma Management, LLC (which is the general partner of Alta BioPharma Partners, L.P.), and a managing director of Alta/Chase Management, LLC (which is the managing member of The Medicines Company Chase Partners (Alta Bio), LLC). Thus he shares voting and dispositive powers over the 341,844 shares of Common Stock and the Warrants for 178,987 shares of Common Stock beneficially owed by Alta BioPharma Partners, L.P., and the 195,226 shares of Common Stock and the Warrants for 102,218 shares of Common Stock beneficially owned by The Medicines Company Chase Partners (Alta Bio), LLC. Mr. Janney disclaims beneficial ownership of the shares held by the aforementioned funds except to the extent of his proportionate pecuniary interests therein. On April 2, 2002, Mr. Janney received 18,070 shares of Common Stock, which was his proportionate pecuniary interest in the stock distributions for Alta BioPharma Management, LLC and Alta/Chase BioPharma Management, LLC.

Dr. Alix Marduel is a managing director of Alta BioPharma Management, LLC (which is the general partner of Alta BioPharma Partners, L.P.), and a managing director of Alta/Chase Management, LLC (which is the managing member of The Medicines Company Chase Partners (Alta Bio), LLC). Thus she shares voting and dispositive powers over the 341,844 shares of Common Stock and the Warrants for 178,987 shares of Common Stock beneficially owed by Alta BioPharma Partners, L.P., and the 195,226 shares of Common Stock and the Warrants for 102,218 shares of Common Stock beneficially owned by The Medicines Company Chase Partners (Alta Bio), LLC. Dr. Marduel disclaims beneficial ownership of the shares held by the aforementioned funds except to the extent of her proportionate pecuniary interests

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therein. On April 2, 2002, Dr. Marduel received 18,070 shares of Common Stock, which was her proportionate pecuniary interest in the stock distributions for Alta BioPharma Management, LLC and Alta/Chase BioPharma Management, LLC.

Mr. Guy Nohra is a managing director of Alta BioPharma Management, LLC (which is the general partner of Alta BioPharma Partners, L.P.), and a managing director of Alta/Chase Management, LLC (which is the managing member of The Medicines Company Chase Partners (Alta Bio), LLC). Thus he shares voting and dispositive powers over the 341,844 shares of Common Stock and the Warrants for 178,987 shares of Common Stock beneficially owed by Alta BioPharma Partners, L.P., and the 195,226 shares of Common Stock and the Warrants for 102,218 shares of Common Stock beneficially owned by The Medicines Company Chase Partners (Alta Bio), LLC. Mr. Nohra disclaims beneficial ownership of the shares held by the aforementioned funds except to the extent of his proportionate pecuniary interests therein. On April 2, 2002, Mr. Nohra received 13,251 shares of Common Stock, which was his proportionate pecuniary interest in the stock distributions for Alta BioPharma Management, LLC and Alta/Chase BioPharma Management, LLC.

Alta Partners is a venture capital firm with an office in San Francisco. Alta Partners is California Corporation. Alta BioPharma Partners, L.P. is a Delaware Limited Partnership, The Medicines Company Chase Partners (Alta Bio), LLC is a Delaware Limited Liability Company, and Alta Embarcadero BioPharma Partners, LLC is a California Limited Liability Company.