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Delaware

CITIZENSHIP OR PLACE OF ORGANIZATION

SECURITIES AND EXCHANGE COMMISSION

Washington, DC 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. 1)¹

l for ge es).
(a)⊠ (b)c
g e

	NUMBER OF	5	SOLE VOTING POWER 0					
	SHARES BENEFICIALLY	6	SHARED VOTING POWER 726,900					
	OWNED BY EACH REPORTING	7	SOLE DISPOSITIVE POWER 0					
	PERSON WITH	8 SHARED DISPOSITIVE POWER 726,900						
9	AGGREGATE <i>A</i>	MOUI	Γ BENEFICIALLY OWNED BY F	EACH REPORTING PERSON				
10		THE	GGREGATE AMOUNT IN ROW	(9) EXCLUDES CERTAIN SHARES*				
	PERCENT OF C	LASS	EPRESENTED BY AMOUNT IN	ROW 9				
	4.1%							
12	TYPE OF REPO	RTINO	PERSON*					
	PN							
			* SEE INSTRUC	TIONS BEFORE FILLING OUT!				
	CUSIP NO. 09	058V 1	.3	13G	Page 3 of 9 Pages			
1	NAME OF REPOR	TING I		ES ONLY):				
1		TING I	ERSON: O. OF ABOVE PERSON (ENTITI	ES ONLY):				
2	I.R.S. IDENTIFICA Biotechnology Value	TING I	ERSON: O. OF ABOVE PERSON (ENTITI		(a)E			
	I.R.S. IDENTIFICA Biotechnology Value	TING I	ERSON: O. OF ABOVE PERSON (ENTITI		(a)E			
2	I.R.S. IDENTIFICA Biotechnology Valu CHECK THE APPH SEC USE ONLY	TING I	ERSON: O. OF ABOVE PERSON (ENTITI		(a)E			
3	I.R.S. IDENTIFICA Biotechnology Valu CHECK THE APPH SEC USE ONLY	TING I	ERSON: O. OF ABOVE PERSON (ENTITI II, L.P. TE BOX IF A MEMBER OF A GR		(a)E			
3	I.R.S. IDENTIFICA Biotechnology Valu CHECK THE APPH SEC USE ONLY CITIZENSHIP OR Delaware NUMBER	TING I	ERSON: O. OF ABOVE PERSON (ENTITI II, L.P. TE BOX IF A MEMBER OF A GR		(a)E			
3	I.R.S. IDENTIFICATE Biotechnology Value CHECK THE APPRENT OF SHARES BENEFICIALLY	TING I	ERSON: O. OF ABOVE PERSON (ENTITI II, L.P. TE BOX IF A MEMBER OF A GR OF ORGANIZATION SOLE VOTING POWER		(a)E			
3	I.R.S. IDENTIFICATE Biotechnology Value CHECK THE APPRENT SEC USE ONLY SEC USE ONLY CITIZENSHIP OR Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING	TING I TION : ie Fund ROPRIA	ERSON: O. OF ABOVE PERSON (ENTITI II, L.P. TE BOX IF A MEMBER OF A GR OF ORGANIZATION SOLE VOTING POWER 0 SHARED VOTING POWER		(a)E			
3	I.R.S. IDENTIFICATE Biotechnology Value CHECK THE APPRENT OF SEC USE ONLY CITIZENSHIP OR Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH	TING I TION : ie Fund ROPRIA PLACE	ERSON: O. OF ABOVE PERSON (ENTITI II, L.P. TE BOX IF A MEMBER OF A GR OF ORGANIZATION SOLE VOTING POWER O SHARED VOTING POWER 406,483 SOLE DISPOSITIVE POWER	OUP*	(a)E			
3	I.R.S. IDENTIFICAL Biotechnology Value CHECK THE APPL SEC USE ONLY CITIZENSHIP OR Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	FING I TION : ILLE FUNC ROPRIA 5 6 7 8	ERSON: O. OF ABOVE PERSON (ENTITI II, L.P. TE BOX IF A MEMBER OF A GR OF ORGANIZATION SOLE VOTING POWER O SHARED VOTING POWER 406,483 SOLE DISPOSITIVE POWER O SHARED DISPOSITIVE POWER	OUP*	(a)E			

11	PERCENT OF CLA	ASS REI	PRESENTED	BY AMOUNT IN ROW 9	
	2.3%				
12	TYPE OF REPORT	TING PE	RSON*		
	PN				
				* SEE INSTRUCTIONS BEFORE FILLING OUT!	
	CUSIP NO. 0905	58V 10 3		13G	Page 4 of 9 Pages
1	NAME OF REPORTII			PERSON (ENTITIES ONLY):	
	BVF Investments, L.l	L.C.			
2	CHECK THE APPRO	PRIATE	BOX IF A N	MEMBER OF A GROUP*	(a)⊠ (b)o
3	SEC USE ONLY				
4	CITIZENSHIP OR PL	LACE OF	ORGANIZ	ATION	
	Delaware				
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	0 	26,017 DLE DISPOS	G POWER FING POWER SITIVE POWER POSITIVE POWER	
9	AGGREGATE AM	10UNT I	BENEFICIA	LLY OWNED BY EACH REPORTING PERSON	
10	926,017 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 5.3%				
12	TYPE OF REPORT	TING PE	RSON*		
				* SEE INSTRUCTIONS BEFORE FILLING OUT!	
	CUSIP NO. 0905	58V 10 3		13G	Page 5 of 9 Pages
1	NAME OF REPORTII			PERSON (ENTITIES ONLY):	

	BVF Partners L.P.					
2	CHECK THE APP	ROPRI	IATE BOX IF A MEM	BER OF A GROUP*		(a)⊠ (b)o
3	SEC USE ONLY					
4	CITIZENSHIP OR	PLAC	E OF ORGANIZATIO	N		
	Delaware					
	NUMBER OF	5	SOLE VOTING PO	OWER		
	SHARES BENEFICIALLY OWNED BY	6	SHARED VOTING 2,130,900	S POWER		
	EACH REPORTING PERSON	7	SOLE DISPOSITIV	/E POWER		
	WITH	8	SHARED DISPOSI 2,130,900	ITIVE POWER		
9	AGGREGATE A	AMOU	INT BENEFICIALLY	OWNED BY EACH REPORTING PERSON		
	2,130,900					
10	CHECK BOX II	THE	AGGREGATE AMOU	UNT IN ROW (9) EXCLUDES CERTAIN SHAI	RES*	
11	PERCENT OF C	CLASS	S REPRESENTED BY	AMOUNT IN ROW 9		0
	12.1%					
12	TYPE OF REPO)RTIN	G PERSON*			
	PN					
			* SI	EE INSTRUCTIONS BEFORE FILLING OU	T!	
	CUSIP NO. 09	9058V	10 3	13G	Page 6 of 9 Pages	
1	NAME OF REPOR			RSON (ENTITIES ONLY):		
	BVF Inc.					
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) (b)					
3	SEC USE ONLY					
4	CITIZENSHIP OR	PLAC	E OF ORGANIZATIO	N		
	Delaware					
	NUMBER	5	SOLE VOTING PO	OWER		
	OF SHARES BENEFICIALLY OWNED BY	6	SHARED VOTING 2,130,900	S POWER		

	EACH REPORTING PERSON	7	SOLE DISPOS 0	SITIVE POWER	
	WITH	8	SHARED DISI 2,130,900	POSITIVE POWER	
9	AGGREGATE	AMOUI	NT BENEFICIAI	LLY OWNED BY EACH REPORTING PERSON	
	2,130,900				
10	CHECK BOX I	F THE A	AGGREGATE A	MOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	
					0
11	PERCENT OF	CLASS	REPRESENTED	BY AMOUNT IN ROW 9	
	12.1%				
12	TYPE OF REP	TYPE OF REPORTING PERSON*			
	IA, CO				
				* SEE INSTRUCTIONS BEFORE FILLING OUT!	
	CUSIP NO. 0	9058V 1	10 3	13G	Page 7 of 9 Pages

ITEM 1(a). NAME OF ISSUER:

Biocryst Pharmaceuticals Inc. ("Biocryst")

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

2190 Parkway Lake Drive Birmingham, Alabama 35244

ITEM 2(a). NAME OF PERSON FILING:

This Amendment to Schedule 13G is being filed on behalf of the following persons* (the "Reporting Persons"):

- (i) Biotechnology Value Fund, L.P. ("BVF")
- (ii) Biotechnology Value Fund II, L.P. ("BVF2")
- (iii) BVF Investments, L.L.C. ("Investments")
- (iv) BVF Partners L.P. ("Partners")
- (v) BVF Inc. ("BVF Inc.")
- * Attached as Exhibit 1 is a copy of an agreement among the Reporting Persons filing (as specified hereinabove) that this Amendment to Schedule 13G is being filed on behalf of each of them.

ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE:

The principal business office of the Reporting Persons comprising the group filing this Amendment to Schedule 13G is located at 227 West Monroe Street, Suite 4800, Chicago, Illinois, 60606.

ITEM 2(c). CITIZENSHIP:

BVF: a Delaware limited partnership
BVF2: a Delaware limited partnership
Investments: a Delaware limited liability company
Partners: a Delaware limited partnership
BVF Inc.: a Delaware corporation

ITEM 2(d). TITLE OF CLASS OF SECURITIES:

Common Stock.

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CUSIP NO. 09058V 10 3	13G	Page 8 of 9 Pages
ITEM 3. IF THIS STATEMENT IS FILED PURS CHECK WHETHER THE PERSON FIL		
Not applicable as this Amendment to S	Schedule 13G is filed pursuant to Rule 13d 1(c).	
ITEM 4. OWNERSHIP:		
The information in items 1 and 5 throureference.	ngh 11 on the cover pages (pp. 2 - 6) on this Amendment to S	Schedule 13G is hereby incorporated by
ITEM 5. OWNERSHIP OF FIVE PERCENT OR	LESS OF A CLASS:	
If this statement is being filed to report than five percent of the class of securit	t the fact that as of the date hereof the Reporting Persons havings check the following. o	ve ceased to be the beneficial owner of more
ITEM 6. OWNERSHIP OF MORE THAN FIVE	PERCENT ON BEHALF OF ANOTHER PERSON:	
dispositive power over the shares of th over the shares of the common stock it of the common stock they beneficially	wer over the shares of the common stock it beneficially owns are common stock it beneficially owns with Partners. Investment beneficially owns with Partners. Partners and BVF Inc. share own with, in addition to BVF, BVF2 and Investments, certain shares. None of the managed accounts individually owns in	ents also shares voting and dispositive power re voting and dispositive power over the shares in managed accounts on whose behalf Partners,
	TION OF THE SUBSIDIARY WHICH ACQUIRED ON BY THE PARENT HOLDING COMPANY:	
Not applicable.		
ITEM 8. IDENTIFICATION AND CLASSIFICATION	TION OF MEMBERS OF A GROUP:	
Not applicable.		
ITEM 9. NOTICE OF DISSOLUTION OF GROU	JP:	
Not applicable.		
CUSIP NO. 09058V 10 3	13G	Page 9 of 9 Pages
ITEM 10. CERTIFICATION		

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above 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.

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: June 28, 2002

ITEM 2(e). CUSIP Number:

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

BVF INVESTMENTS, L.L.C.

By: BVF Partners L.P., its manager

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

BVF INC.

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

QuickLinks

SCHEDULE 13G

ITEM 1(a). NAME OF ISSUER

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

ITEM 2(a). NAME OF PERSON FILING

ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE

ITEM 2(c). CITIZENSHIP

ITEM 2(d). TITLE OF CLASS OF SECURITIES

ITEM 2(e). CUSIP Number

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13d-1(b), or 13d-2(b) or (c) CHECK WHETHER THE PERSON FILING IS: One of the following

ITEM 4. OWNERSHIP

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

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

ITEM 7, IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY

THE PARENT HOLDING COMPANY

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF A GROUP

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

ITEM 10. CERTIFICATION

EXHIBIT 1

AGREEMENT REGARDING JOINT FILING

The undersigned, Biotechnology Value Fund, L.P., a Delaware limited partnership, Biotechnology Value Fund II, L.P., a Delaware limited partnership, BVF Investments, L.L.C., a Delaware limited liability company, BVF Partners L.P., a Delaware limited partnership, and BVF Inc., a Delaware corporation, hereby agree and acknowledge that the information required by Amendment to Schedule 13G, to which this Agreement is attached as an exhibit, is filed on behalf of each of them. The undersigned further agree that any amendments or supplements thereto shall also be filed on behalf of each of them.

Dated: June 28, 2002

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

BVF INVESTMENTS, L.L.C.

By: BVF Partners L.P., its manager

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

BVF INC.

By: /s/ MARK N. LAMPERT

Mark N. Lampert President

QuickLinks

EXHIBIT 1

AGREEMENT REGARDING JOINT FILING