UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G (Rule 13d-102)

(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 RULE 13d-2(b)

(Amendment No. 1)¹

Molecular Partners AG (Name of Issuer)

Common Shares, CHF 0.10 nominal value per share

(Title of Class of Securities)

60853G106

(CUSIP Number)

December 31, 2021

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

□ Rule 13d-1(b)

⊠ Rule 13d-1(c)

□ Rule 13d-1(d)

¹ 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 disclosures provided in a prior cover page.

The information required on 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*).

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1	NAME OF REPO	RTING PERSON	
		gy Value Fund, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	D I		
NUMBER OF	Delaware 5	SOLE VOTING POWER	
SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH	0	Sinned vormer rower	
REPORTING		1,578,325	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		1,578,325	
9	AGGREGATE AN	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4 550 555		
10	1,578,325		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	FERCENT OF CL	ASS REFRESENTED DT AMOUNT IN ROW (9)	
	4.9%		
12	TYPE OF REPOR	TING PERSON	
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1	NAME OF REPORTING PERSON		
	BVF I GP L		
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
2	CHECK THE AP	PROPRIATE DOA IF A MEMDER OF A GROUP	(a) ⊠ (b) □
			(0) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OI	R PLACE OF ORGANIZATION	
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NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH	-		
REPORTING		1,578,325	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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	8	SHARED DISPOSITIVE POWER	
		1,578,325	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,578,325		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11			
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.9%		
12	TYPE OF REPOR	TING PERSON	
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1	NAME OF REPOR	RTING PERSON	
		gy Value Fund II, L.P.	
2			(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
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NUMBER OF	Delaware 5	SOLE VOTING POWER	
SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH	0	SIMALD VOTING FOWER	
REPORTING		1,288,124	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		1,288,124	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	1,288,124		
10	CHECK BOX IF 1	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CL	ACC DEDDECENTED DV AMOUNT IN DOM/ (0)	
	PERCENT OF CL.	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.0%		
12	TYPE OF REPORT	TING PERSON	
14	I I I E OF KEFOK		
	PN		
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	1		
1	NAME OF REPOR	RTING PERSON	
	BVF II GP L	LC	
2	CHECK THE APP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
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4	CITIZENSHIPOR	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES	5		
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		1,288,124	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		1,288,124	
9	ACCRECATE AN	1,200,124 MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
5	AGOREOATE AN	IOONT DEMERCIALET OWNED DT EACH AEI OKTING TEKSON	
	1,288,124		
10	, ,	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.0%		
12	TYPE OF REPOR	TING PERSON	
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1	NAME OF REPOR	TING PERSON	
		y Value Trading Fund OS LP	
2			(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Community Internet	1.	
NUMBER OF	Cayman Islan 5	as Sole voting power	
SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH	0		
REPORTING		177,743	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		177,743	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	177,743		
10	CHECK BOX IF TH	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	· · · · · ·
11	I ENCENT OF CLA	ADD VELVES TIL TOTALI III VOW (2)	
	Less than 1%		
12	TYPE OF REPORT	ING PERSON	
	PN		
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1	NAME OF REPO	RTING PERSON	
	BVF Partner		
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	с н	,	
	Cayman Isla		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH	0	SHARED VOTING POWER	
REPORTING		177,743	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
	/	SOLE DISTOSTIVE FOWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		177,743	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	177,743		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	т.1 40		
12	Less than 19	-	
12	TYPE OF REPOR	and rekson	
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1	NAME OF REPC	PRTING PERSON	
	·	DLDINGS LLC	
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) 🗆
3	SEC USE ONLY		
5	SEC USE ONEI		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 SHARED VOTING POWER	
EACH	0	SHARED VOTING POWER	
REPORTING		2,866,449	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
9		2,866,449 MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGALE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,866,449		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	8.9%		
12	TYPE OF REPOR	RTING PERSON	
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1	NAME OF REPO	RTING PERSON	
	BVF Partne		
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			(b) 🗆
3	SEC USE ONLY		
4		R PLACE OF ORGANIZATION	
4	CITIZENSHIP OF	A PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		3,101,282	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
	0	SHARED DISPOSITIVE FOWER	
		3,101,282	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,101,282		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11			
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	9.7%		
12	TYPE OF REPOR	TING PERSON	
12			
	PN, IA		
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1	NAME OF REPOR	RTING PERSON	
	BVF Inc.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)		
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		2 101 202	
PERSON WITH	7	3,101,282 SOLE DISPOSITIVE POWER	
	/	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		3,101,282	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2 101 202		
10	3,101,282	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK DUA IF I	TE AGGREGALE AMOUNT IN ROW (9) EACLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	9.7%		
12	TYPE OF REPORT	TING PERSON	
	CO		

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1	NAME OF REPO	RTING PERSON	
	Mark N. Lar		
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
3	SEC USE UNLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	· · · · ·
	United State	S	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		2 101 202	
PERSON WITH	7	3,101,282 SOLE DISPOSITIVE POWER	
PERSON WITH	/	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
	_		
		3,101,282	
9	AGGREGATE AN	NOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	3,101,282		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	TERCERT OF CL	$\frac{1}{100} \operatorname{Ker} \operatorname{Ker} \operatorname{Ker} \operatorname{Ker} (5)$	
	9.7%		
12	TYPE OF REPOR	TING PERSON	
	IN		

CUSIP No.	
Item 1(a).	Name of Issuer:
	Molecular Partners AG, incorporated as an Aktiengesellschaft, or AG (the "Issuer").
Item 1(b).	Address of Issuer's Principal Executive Offices:
	Wagistrasse 14, 8952 Zurich-Schlieren, Switzerland
Item 2(a). Item 2(b). Item 2(c).	Name of Person Filing Address of Principal Business Office or, if None, Residence Citizenship
	Biotechnology Value Fund, L.P. ("BVF") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	BVF I GP LLC ("BVF GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	Biotechnology Value Fund II, L.P. ("BVF2") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	BVF II GP LLC ("BVF2 GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	Biotechnology Value Trading Fund OS LP ("Trading Fund OS") PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands
	BVF Partners OS Ltd. ("Partners OS") PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands
	BVF GP Holdings LLC ("BVF GPH") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	BVF Partners L.P. ("Partners") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

	BVF Inc. 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware Mark N. Lampert ("Mr. Lampert") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: United States				
	Each of the	e foregoing	is referred to as a "Reporting Person" and collectively as the "Reporting Persons."		
Item 2(d).	Title of Cl	ass of Secur	ities:		
	Common S	Shares, CHF	F 0.10 nominal value per share (the "Shares").		
Item 2(e).	CUSIP Nu	mber:			
	60853G10	6			
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 a:				
		/x/	Not applicable.		
	(a)	//	Broker or dealer registered under Section 15 of the Exchange Act.		
	(b)	//	Bank as defined in Section 3(a)(6) of the Exchange Act.		
	(c)	//	Insurance company as defined in Section 3(a)(19) of the Exchange Act.		
	(d)	//	Investment company registered under Section 8 of the Investment Company Act.		
	(e)	//	An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).		
	(f)	//	An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).		
	(g)	//	A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).		
	(h)	//	A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.		
	(i)	//	A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act.		
	(j)	//	Non-U.S. Institution, in accordance with Rule 13d-1(b)(1)(ii)(J).		
	(k)	//	Group, in accordance with Rule 13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution:		

Item 4.

(a) Amount beneficially owned:

Ownership

As of the close of business on December 31, 2021, (i) BVF beneficially owned 1,578,325 Shares, including 225,899 American Depositary Shares (each representing the right to receive one Share) ("ADSs"), (ii) BVF2 beneficially owned 1,288,124 Shares, including 198,301 ADSs and (iii) Trading Fund OS beneficially owned 177,743 Shares, including 16,033 ADSs.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 1,578,325 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 1,288,124 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 177,743 Shares beneficially owned by Trading Fund OS.

BVF GPH, as the sole member of each of BVF GP and BVF2 GP, may be deemed to beneficially own the 2,866,449 Shares beneficially owned in the aggregate by BVF and BVF2.

Partners, as the investment manager of BVF, BVF2 and Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 3,101,282 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and that certain Partners managed account (the "Partners Managed Account"), including 57,090 Shares held in the Partners Managed Account, including 2,988 ADSs held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 3,101,282 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 3,101,282 Shares beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any Shares owned by another Reporting Person. BVF GP disclaims beneficial ownership of the Shares beneficially owned by BVF. BVF2 GP disclaims beneficial ownership of the Shares beneficially owned by BVF2. Partners OS disclaims beneficial ownership of the Shares beneficially owned by BVF2. Partners OS disclaims beneficially owned by BVF2 and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF2. Trading Fund OS, and the Partners Managed Account, and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based on 32,146,992 Shares (including Shares underlying the ADSs) outstanding, which is the total number of Shares outstanding as disclosed in the Swiss Commercial Registry.

As of the close of business on December 31, 2021, (i) BVF beneficially owned approximately 4.9% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 4.0% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares, (iv) BVF GP may be deemed to beneficially own approximately 4.9% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 4.0% of the outstanding Shares, (vi) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, (vii) BVF GPH may be deemed to beneficially own approximately 8.9% of the outstanding Shares and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 9.7% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Account).

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

See Cover Pages Items 5-9.

(ii) Shared power to vote or to direct the vote

See Cover Pages Items 5-9.

(iii) Sole power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

(iv) Shared power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

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

Not Applicable.

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

BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF, BVF2, BVF GP and BVF2 GP. Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by Trading Fund OS and the Partners Managed Account.

CUSIP No. 60853G106 Item 7. Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent Holding Company or Control Person. Not Applicable. Item 8. Identification and Classification of Members of the Group. See Exhibit 99.1 to Amendment No. 1 to the Schedule 13G filed with the Securities and Exchange Commission on September 15, 2021. Item 9. Notice of Dissolution of Group. Not Applicable. Item 10. Certifications. By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities 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

16

and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: January 12, 2022

BIOTECHNOLOGY VALUE FUND, L.P.

- By: BVF I GP LLC., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF I GP LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

- By: BVF II GP LLC, its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF II GP LLC

- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer
- BVF PARTNERS OS LTD.
- By: BVF Partners L.P., its sole member
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

BIOTECHNOLOGY VALUE TRADING FUND OS LP

- By: BVF Partners L.P., its investment manager
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert

Mark N. Lampert President

BVF GP HOLDINGS LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

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

/s/ Mark N. Lampert

MARK N. LAMPERT