UNITED STATES 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 RULE 13d-2(b)

(Amendment No. $)^1$

AnaptysBio, Inc.
(Name of Issuer)
Common Stock, \$0.001 par value
(Title of Class of Securities)
032724106
(CUSIP Number)
January 23, 2020
(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)
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, <i>see</i> the <i>Notes</i>).

1	NAME OF REPOR	TING PERSON	
	Biotechnolog	y Value Fund, L.P.	
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	_ ,		
144 (222 02	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH	О	SHARED VOTING POWER	
REPORTING		733,882	
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		0 shares	
	8	SHARED DISPOSITIVE POWER	
		733,882	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	733,882		
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1	NAME OF REPORTING PERSON		
	BVF I GP L	LC	
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			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
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1 NAME OF REPORTING PERSON			
	NAME OF REPORTING PERSON		
Biotechnology Value Fund II, L.P.			
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 shares			
OWNED BY 6 SHARED VOTING POWER			
EACH			
REPORTING 564,092			
PERSON WITH 7 SOLE DISPOSITIVE POWER			
0 shares			
8 SHARED DISPOSITIVE POWER			
564,092			
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSO	N		
564,092			
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN S	SHARES		
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12 TYPE OF REPORTING PERSON			
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		THE PERSON	
1	NAME OF REPORTING PERSON		
	BVF II GP LI		
2	CHECK THE APPR	COPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
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3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
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REPORTING		564,092	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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10	CHECK BOX IF TH	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
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	2.1%		
12	TYPE OF REPORT	ING PERSON	
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		ogy Value Trading Fund OS LP PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
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NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		99,383	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		99,383	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	99,383		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
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12	Less than 1	.% RTING PERSON	
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	PN		

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1	NAME OF REPORTING PERSON		
	BVF Partne	arc OS I td	
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NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		0 shares	
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EACH	0	SHARED VOTING TOWER	
REPORTING		99,383	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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	8	SHARED DISPOSITIVE POWER	
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10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
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	Less than 1	0/2	
12	TYPE OF REPOR		
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	CO		

	NAME OF PEROI	DEING DEDGON	1
1	NAME OF REPORTING PERSON		
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		LDINGS LLC	() [2]
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
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3	SEC USE ONLY		
4	CITIZENCLUD OD	PLACE OF ORGANIZATION	
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES		SOLE VOTINGTOWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		1,297,974	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
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9	AGGREGATE AN	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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10	1,297,974	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
10	CHECK BOX IF I	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN STAKES	
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	4.8%		
12	TYPE OF REPOR	TING PERSON	_
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	T		
1	NAME OF REPORTING PERSON		
	BVF Partners	. —	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠		(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		1,441,565	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1,441,565	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,441,565		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	5.3%		
12	TYPE OF REPORT	TING PERSON	-
	PN, IA		

1	NAME OF REPO	RTING PERSON	
	BVF Inc.		
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
	CITIZENICIUS OF	A DI A CE OF OR CANYTATION	
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Delaware		
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SHARES	3	SOLE VOTING FOWER	
BENEFICIALLY		0 shares	
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REPORTING		1,441,565	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1,441,565	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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10	1,441,565	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
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	5.3%		
12	TYPE OF REPOR	TING PERSON	
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1	NAME OF REPOR	TING PERSON	
1	While of Reforming Lebon		
	Mark N. Lam	pert	
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
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3	SEC USE ONLY		
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	United States		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
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PERSON WITH	7	SOLE DISPOSITIVE POWER	
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		0 shares	
	8	SHARED DISPOSITIVE POWER	
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9	ACCDECATE AM	1,441,565 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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	1,441,565		
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	5.3%		
12	TYPE OF REPORT	ING PERSON	
	IN		

Item 1(a). Name of Issuer:

AnaptysBio, Inc., a Delaware corporation (the "Issuer").

Item 1(b). Address of Issuer's Principal Executive Offices:

10421 Pacific Center Court, Suite 200

San Diego, California 92121

Item 2(a). Name of Person Filing

Item 2(b). Address of Principal Business Office or, if None, Residence

Item 2(c). 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

Cavman 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 foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

Item 2(d). Title of Class of Securities:

Common Stock, \$0.001 par value per share (the "Shares")

Item 2(e). CUSIP Number:

032724106

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)	//	Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
(k)	//	Group, in accordance with Rule 240.13d-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. Ownership

(a) Amount beneficially owned:

As of the close of business on February 3, 2020 (i) BVF beneficially owned 733,882 Shares, (ii) BVF2 beneficially owned 564,092 Shares, and (iii) Trading Fund OS beneficially owned 99,383 Shares.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 733,882 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 564,092 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 99,383 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 1,297,974 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 1,441,565 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners Managed account (the "Partners Managed Account"), including 44,208 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 1,441,565 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 1,441,565 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 Trading Fund OS. BVF GPH disclaims beneficial ownership of the Shares beneficially owned by BVF and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF, 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 27,133,459 Shares outstanding, as of November 5, 2019, as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 8, 2019.

As of the close of business on February 3, 2020 (i) BVF beneficially owned approximately 2.7% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 2.1% 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 2.7% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 2.1% 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 4.8% of the outstanding Shares, and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 5.3% 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.

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

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.

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 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.

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: February 3, 2020

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF I GP LLC., its general partner

/s/ Mark N. Lampert By:

Mark N. Lampert

Chief Executive Officer

BVF I GP LLC

/s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF II GP LLC its general partner

/s/ Mark N. Lampert By:

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.

BVF Partners L.P., its sole member

By: BVF Inc., its general partner

/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

Mark N. Lampert

MARK N. LAMPERT

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Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated February 3, 2020 with respect to the shares of Common Stock of AnaptysBio, Inc., and any further amendments thereto executed by each and any of the undersigned shall be filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended.

Dated: February 3, 2020

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

/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

/s/ Mark N. Lampert

Mark N. Lampert Chief Executive Officer

BVF PARTNERS OS LTD.

BVF Partners L.P., its sole member BVF Inc., its general partner By:

/s/ Mark N. Lampert By:

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

Mark N. Lampert

MARK N. LAMPERT