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, par value \$0.001 per share (Title of Class of Securities)

032724106

(CUSIP Number)

January 26, 2017

(Date of Event Which Requires Filing of this Statement)

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

- o Rule 13d-1(b)
- x Rule 13d-1(c)
- o 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 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*).

1	NAME OF REPORTING PERSON			
	Biotechnology Value Fund, L.P.			
2	CHECK THE APPRO	DPRIATE BOX IF A MEMBER OF A GROUP	(a) x	
			(b) o	
3	SEC USE ONLY			
4	CITIZENSHIP OR P	LACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING				
PERSON WITH		907,116		
	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		005 110		
0		907,116 UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9	AGGREGALE AMO	UNI BENEFICIALLY OWNED BY EACH REPORTING PERSON		
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10	907,116			
10	CHECK BUX IF IH.	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	4.6%			
12	TYPE OF REPORTI	NC DEDSON		
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1	NAME OF DEPOPT	NORDCON	
1	NAME OF REPORTING PERSON		
	Biotechnology Volue Fund II, J. D.		
2	Biotechnology Value Fund II, L.P.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x		
3	SEC USE ONLY		(b) o
3	SEC USE ONLY		
4	CITIZENSUID OD DI	ACE OF ORGANIZATION	
4	CITIZENSHIP OK PI	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING			
PERSON WITH		551,019	
	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		551,019	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	EE1 010		
10	551,019 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
10	CHECK DUA IF I HI	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	2.8%		
12	TYPE OF REPORTIN	JG PERSON	
	PN		
L			

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1	NAME OF REPORTING PERSON			
	Biotechnology Value Trading Fund OS LP			
2	CHECK THE APPRC	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x		
			(b) o	
3	SEC USE ONLY			
4	CITIZENSHIP OR PL	ACE OF ORGANIZATION		
	Cayman Islands			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING				
PERSON WITH		74,064		
	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		74,064		
9	AGGREGATE AMOU	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	74,064			
10	CHECK BOX IF THE	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	Less than 1%			
12	TYPE OF REPORTIN	IG PERSON		
	PN			

1	NAME OF REPORTING PERSON			
	BVF Partners OS Ltd.			
2	CHECK THE APPRC	OPRIATE BOX IF A MEMBER OF A GROUP	(a) x	
			(b) o	
3	SEC USE ONLY			
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION		
	Cayman Islands	1		
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING				
PERSON WITH		74,064		
	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		74.004		
0		74,064		
9	AGGREGALE AMOU	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	74,064			
10	,	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
10	CHECK DUA IF THE	AGGREGATE AMOUNT IN ROW (9) EACLODES CERTAIN SHARES		
11				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	Less than 1%			
12	TYPE OF REPORTIN	IC DEDSON		
12	11FE OF KEPUKIIN	NG FERSOIN		
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1	NAME OF REPORTING PERSON			
	BVF Partners L.P.			
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) x	
			(b) o	
3	SEC USE ONLY			
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES	5	SOLE VOTING POWER		
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING	0			
PERSON WITH		1,904,600		
	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		1,904,600		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	1,904,600			
10	CHECK BOX IF THI	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	9.6%			
12	9.6% TYPE OF REPORTIN	JC DEDSON		
12	I I PE OF KEPORIII	NG LEVOON		
	PN, IA			
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BVF 2 CHE 3 SEC	CK THE APPRO	NG PERSON PRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o
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2CHE3SEC	CK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	
3 SEC	USE ONLY	PRIATE BOX IF A MEMBER OF A GROUP	
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	ZENSHIP OR PL	ACE OF ORGANIZATION	
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NUMBER OF	5	SOLE VOTING POWER	
SHARES	5		
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING			
PERSON WITH		1,904,600	
	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		4 004 000	
		1,904,600	
9 AGG	REGALE AMOU	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
1 904	1 600		
	1,904,600 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11 PERG	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
9.6%			
12 TYPI	E OF REPORTIN	IG PERSON	
CO			

1				
1	NAME OF REPORTING PERSON			
	Mark N. Lampert			
2	CHECK THE APPRO	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x		
			(b) o	
3	SEC USE ONLY			
4	CITIZENSHIP OR P	LACE OF ORGANIZATION		
	United States			
NUMBER OF	5	SOLE VOTING POWER		
SHARES	J			
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING	0			
PERSON WITH		1,904,600		
	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		1,904,600		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	4 00 4 000			
10	1,904,600			
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	9.6%			
12	TYPE OF REPORTIN	NC DERSON		
12				
	IN			
L				

CUSIP NO. 032724106

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, CA 92121
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") 1 Sansome Street, 30 th Floor San Francisco, California 94104 Citizenship: Delaware
	Biotechnology Value Fund II, L.P. ("BVF2") 1 Sansome Street, 30 th 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 Partners L.P. ("Partners") 1 Sansome Street, 30th Floor San Francisco, California 94104 Citizenship: Delaware
	BVF Inc. 1 Sansome Street, 30 th Floor San Francisco, California 94104 Citizenship: Delaware
	Mark N. Lampert ("Mr. Lampert") 1 Sansome Street, 30 th 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, par value \$0.001 per share (the "Common Stock")					
Item 2(e).	CUSI	CUSIP Number:				
	032724106					
Item 3.	If This	s Stateme	ent 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.	Owne	rship				

(a) Amount beneficially owned:

As of the close of business on February 3, 2017 (i) BVF beneficially owned 907,116 shares of Common Stock, (ii) BVF2 beneficially owned 551,019 shares of Common Stock, and (iii) Trading Fund OS beneficially owned 74,064 shares of Common Stock.

Partners OS as the general partner of Trading Fund OS may be deemed to beneficially own the 74,064 shares of Common Stock beneficially owned by Trading Fund OS.

Partners, as the general partner of BVF, BVF2, the investment manager of Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 1,904,600 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and certain Partners Managed accounts (the "Partners Managed Accounts"), including 372,401 shares of Common Stock held in the Partners Managed Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 1,904,600 shares of Common Stock beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 1,904,600 shares of Common Stock 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 of Common Stock owned by another Reporting Person. Partners OS disclaims beneficial ownership of the shares of Common Stock beneficially owned by Trading Fund OS. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Accounts, 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 19,909,333 shares of Common Stock outstanding as disclosed in the Issuer's Prospectus on Form 424B4 filed with the Securities and Exchange Commission on January 26, 2017.

As of the close of business on February 3, 2017 (i) BVF beneficially owned approximately 4.6% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 2.8% of the outstanding shares of Common Stock, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding shares of Common Stock (iv) Partners OS may be deemed to beneficially own less than 1% of the outstanding shares of Common Stock, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 9.6% of the outstanding shares of Common Stock (approximately 1.9% of which is held in the Partners Managed Accounts).

- (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.

CUSIP NO. 032724106

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 of Common Stock beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Managed Accounts.	
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		

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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, 2017

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

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert President

/s/ Mark N. Lampert MARK N. LAMPERT

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 PARTNERS L.P.

- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

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

Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated February 3, 2017 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, 2017

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

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert President

/s/ Mark N. Lampert

MARK N. LAMPERT

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 PARTNERS L.P.

- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

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