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. 7)¹

Cytokinetics, Incorporated
(Name of Issuer)
Common Stock, \$0.001 par value per share
(Title of Class of Securities)
23282W605
(CUSIP Number)
December 31, 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:
□ 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 REPORTING PERSON		
	Biotechnology Value Fund, L.P.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □		
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR F	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		2,734,215	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2,734,215	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	2,734,215		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	4.6%		
12	TYPE OF REPORTI	NG PERSON	
	PN		

	1			
1	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 I	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		1,769,797		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		1,769,797		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	1,769,797			
10	CHECK BOX IF TH	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	3.0%			
12	TYPE OF REPORTI	ING PERSON		
	PN			

<u> </u>	+			
1	NAME OF REPOR	TING PERSON		
	Biotechnolog	gy Value Trading Fund OS LP		
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) □	
			,	
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Cayman Isla	nds		
NUMBER OF	5	SOLE VOTING POWER	-	
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		459,326		
PERSON WITH	7	SOLE DISPOSITIVE POWER	,	
		0 shares		
	8	SHARED DISPOSITIVE POWER	-	
		459,326		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	459,326			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	TERCENT OF CENTS REPRESENTED BY THROUTH IN NOW (3)			
	Less than 19	6		
12	TYPE OF REPORT			
	PN			
	1			

1	NAME OF REPORTING PERSON		
	BVF Partners OS Ltd.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠		
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Cayman Island	ds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER	
EACH	O	SHARED VOTING POWER	
REPORTING		459,326	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	-
	o o	SHARED DISTOSHIVE FOWER	
		459,326	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	459,326		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
		,	
- 11	DED CENTE OF CT A	CC DEDDECEMEED DV AMOUNT IN DOLL (0)	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%		
12	TYPE OF REPORTI	NG PERSON	
	60		
	CO		

1	NAME OF REPORTING PERSON		
	BVF Partners L.P.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) □		
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENCIUS OS I	LACE OF ORGANIZATION	
4	CITIZENSHIP OR F	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES		0.4	
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER	
EACH	0	SHARED VOING FOWER	
REPORTING		5,721,888	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		ommes sion commits to them	
		5,721,888	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	5,721,888		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
- 11	DED CENTE OF CLAS	CC DEDDECEMBED BY AMOUNT IN DOM (0)	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	9.6%		
12	TYPE OF REPORTI	NG PERSON	
	DNI IA		
	PN, IA		

1	NAME OF REPORTING PERSON		
	BVF Inc.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \boxtimes (b) \square		
			(0) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	· · · · · · · · · · · · · · · · · · ·
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		F 734 000	
PERSON WITH	7	5,721,888 SOLE DISPOSITIVE POWER	
	,	SOLL DISTOSITIVE TOWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		5,721,888	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	E E24 000		
10	5,721,888 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
10	GILCIC BOX II III	ENGOLEGITE THROUTH IN NOW (3) ENCEODED CERTIFICATION	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	9.6%		
12	TYPE OF REPORTI	NG PERSON	
	60		
	CO		

	NAME OF BERORS	EINC DEDCON	
1	NAME OF REPORTING PERSON		
	Mark N. Lampert		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (a)		
2	(a)		
			(6) \Box
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION		
	United States		
NUMBER OF	5	SOLE VOTING POWER	
SHARES	3	SOLE VOTING FOWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		5,721,888	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SHAKED DISPOSITIVE FOWER	
		5,721,888	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	5,721,888		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
11	I LICEIVI OF CLA	SO TEL RESERVED DI TRICOTTI IN NOTA (3)	
	9.6%		
12	TYPE OF REPORT	ING PERSON	
	IN		

Item 1(a). Name of Issuer:

Cytokinetics, Incorporated, a Delaware corporation (the "Issuer").

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

280 East Grand Avenue

South San Francisco, California 94080

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")

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2")

1 Sansome Street, 30th 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, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 1 Sansome Street, 30th 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). CUSIP Number:

23282W 60 5

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), pthe type of institution: ____

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on December 31, 2017, (i) BVF beneficially owned 2,734,215 shares of Common Stock, (ii) BVF2 beneficially owned 1,769,797 shares of Common Stock, (iii) Trading Fund OS beneficially owned 459,326 shares of Common Stock and (iv) 758,550 shares of Common Stock were held in certain Partners managed accounts (the "Partners Managed Accounts").

Partners OS, as the general partner of Trading Fund OS may be deemed to beneficially own the 459,326 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 5,721,888 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and the Partners Managed Accounts, including 758,550 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 5,721,888 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 5,721,888 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 59,685,598 shares of Common Stock outstanding, which is the total number of shares of Common Stock outstanding as reported in the Issuer's Prospectus filed with the Securities and Exchange Commission on November 6, 2017.

As of the close of business on December 31, 2017 (i) BVF beneficially owned approximately 4.6% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 3.0% 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 1.3% 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.

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 to Amendment No. 2 to Schedule 13G filed with the Securities and Exchange Commission on February 16, 2016.

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 14, 2018

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