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)1

Cytokinetics, Incorporated

(Name of Issuer)

Common Stock, \$0.001 par value (Title of Class of Securities)

23282W 60 5

(CUSIP Number)

December 31, 2014

(Date of Event Which Requires Filing of this Statement)

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

 $\square \qquad \text{Rule 13d-1(b)}$

Rule 13d-1(c)

 $\square \qquad \text{Rule 13d-1(d)}$

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 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.

1	NAME OF REPORTIN	CRERSON	
1	NAME OF REFORTING FERSON		
	\mathbf{D}^{1} , $(\cdot, 1, \dots, 1, \dots, M, 1)$		
	Biotechnology Value Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) 🗵		
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY			
OWNED BY EACH		0 shares	
REPORTING PERSON	6	SHARED VOTING POWER	
WITH			
		1,550,980 (1)	
	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1,550,980 (1)	
9	AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
-			
	1,550,980(1)		
10		AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10			—
11	PERCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
**	· Liteliti of elitob		
	4.2%		
12	TYPE OF REPORTING	PERSON	
12		JI EKOON	
	PN		
L	111		

(1) Includes 421,602 shares of Common Stock currently issuable upon the exercise of a certain warrant. See Item 4(a) for a full description of the Reporting Person's beneficial ownership.

1	NAME OF REPORTIN	G PERSON	
	Biotechnology Value Fund II, L.P.		
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY			
OWNED BY EACH		0 shares	
REPORTING PERSON	6	SHARED VOTING POWER	
WITH			
		811,003 (1)	
	7	SOLE DISPOSITIVE POWER	
	,		
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SIMILED DISTOSITIVE FOWER	
		811,003 (1)	
9	AGGREGATE AMOUN	VT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
, í	100110/110/11000	T BEACHTORIEET OWNED DT EACHTREFORTINGTERSON	
	811,003 (1)		
10		AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK DOA IF THE F	GOREOATE AWOONT IN KOW (7) EACEDDES CERTAIN SHARES	
11	DEDCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
11	TERCENT OF CLASS	$\operatorname{Restrict} \mathbf{D} \operatorname{Trivouvi in Row}(\mathbf{y})$	
	2.2%		
12	TYPE OF REPORTING	DEDSON	
12	I ITE OF KEPOKTING	I F EKSON	
	PN		
L	F IN		

(1) Includes 225,379 shares of Common Stock currently issuable upon the exercise of a certain warrant. See Item 4(a) for a full description of the Reporting Person's beneficial ownership.

1	NAME OF REPORTIN	G PERSON	
	Investment 10, L.L.C.		
2		 RIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
2	CHECK THE AFFROM	KIATE BOX IF A MEMBER OF A OROOF	(a) ⊠ (b) □
3	SEC USE ONLY		(0) 🖬
-			
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION	
	Illinois		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		0 shares	
REPORTING PERSON	6	SHARED VOTING POWER	
WITH	0	SHAKED VOTING POWER	
		436,650 (1)	
	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
9	ACCRECATE AMOUN	436,650 (1) VT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AUGKEGATE AMOUT	NI BENEFICIALLI OWNED BI EACH KEPOKTING PEKSON	
	436,650(1)		
10		AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
	1.2%		
12	TYPE OF REPORTING	PERSON	
	00		
L	00		

(1) Includes 121,590 shares of Common Stock currently issuable upon the exercise of a certain warrant. See Item 4(a) for a full description of the Reporting Person's beneficial ownership.

1	NAME OF REPORTIN	G PERSON	
	MSI BVF SPV, LLC		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠		
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		0 shares	
REPORTING PERSON	6	SHARED VOTING POWER	
WITH	-		
	_	565,519 (1)	
	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		565,519 (1)	
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	565,519(1)		
10		AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
	1.5%		
12	TYPE OF REPORTING	PERSON	
	00		
L	00		

(1) Includes 152,481 shares of Common Stock currently issuable upon the exercise of a certain warrant. See Item 4(a) for a full description of the Reporting Person's beneficial ownership.

NAME OF REPORTING	G PERSON		
BVF Partners L.P.			
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) 🖾			
SEC USE ONLY		(b) 🗆	
TITIZENSHIP OR PLAC	CE OF OR GANIZATION		
Delaware			
5	SOLE VOTING POWER		
	0 shares		
6	SHARED VOTING POWER		
Ũ			
	3 364 152 (1)		
7			
/	SOLE DISPOSITIVE FOWER		
	() shares		
8			
0	SHARED DISI OSHTIVE I OWER		
	3 364 152 (1)		
AGGREGATE AMOUN			
100112011271000	I DENDITOTILE I OWNED DI ENORMEI ONTINGTERSON		
3,364,152,(1)			
/ / //	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
THE R DOA II THE A	Sokeonie indonii inkow () Ekceobes cektrin shakes		
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
9.0%			
	PERSON		
PN. IA			
	BVF Partners L.P. CHECK THE APPROPR EC USE ONLY CITIZENSHIP OR PLAC Delaware 5 6 7 8 AGGREGATE AMOUN 3,364,152 (1) CHECK BOX IF THE A ERCENT OF CLASS F 9.0%	BVF Partners L.P. THECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP EC USE ONLY TITIZENSHIP OR PLACE OF ORGANIZATION Delaware 5 SOLE VOTING POWER 0 shares 0 6 SHARED VOTING POWER 3,364,152 (1) 7 7 SOLE DISPOSITIVE POWER 0 shares 0 8 SHARED DISPOSITIVE POWER 3,364,152 (1) 3,364,152 (1) GGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,364,152 (1) GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9,0% YPE OF REPORTING PERSON	

(1) Includes 921,052 shares of Common Stock currently issuable upon the exercise of certain warrants. See Item 4(a) for a full description of the Reporting Person's beneficial ownership.

1	NAME OF REPORTIN	G PER SON	
1	THE OF REPORTIN		
	BVF Inc.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) 🗵		
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY	5		
OWNED BY EACH		0 shares	
REPORTING PERSON	6	SHARED VOTING POWER	
WITH			
		3,364,152 (1)	
	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SIMILED DISI OSITIVE I OWER	
		3,364,152 (1)	
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,364,152 (1)		
10	CHECK BOX IF THE A	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CLASS	DEDDESENTED DV AMOUNT IN DOW (0)	
11	rencent OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
	9.0%		
12	TYPE OF REPORTING	G PERSON	
	CO		

(1) Includes 921,052 shares of Common Stock currently issuable upon the exercise of certain warrants. See Item 4(a) for a full description of the Reporting Person's beneficial ownership.

NAME OF REPORTIN	G PER SON	
THE OF REPORTER		
Mark N. Lampert		
CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
		(b) 🗆
SEC USE ONLY		
CITIZENSHIP OR PLA	CE OF OKGANIZATION	
United States		
5	SOLE VOTING POWER	
	0 shares	
6	SHARED VOTING POWER	
	2.264.152.(1)	
7		
/	SOLE DISPOSITIVE POWER	
	0 shares	
8	SHARED DISPOSITIVE POWER	
AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
3 364 152 (1)		
	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		_
PERCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
	NER CON	
I YPE OF REPORTING	PERSON	
IN		
	Mark N. Lampert CHECK THE APPROP SEC USE ONLY CITIZENSHIP OR PLA United States 5 6 7 8 AGGREGATE AMOUN 3,364,152 (1) CHECK BOX IF THE A PERCENT OF CLASS 9.0%	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION United States 0 SOLE VOTING POWER 0 shares 6 SHARED VOTING POWER 3,364,152 (1) 7 7 SOLE DISPOSITIVE POWER 0 shares 8 SHARED DISPOSITIVE POWER 3,364,152 (1) 3,364,152 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,364,152 (1) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.0% TYPE OF REPORTING PERSON

(1) Includes 921,052 shares of Common Stock currently issuable upon the exercise of certain warrants. See Item 4(a) for a full description of the Reporting Person's beneficial ownership.

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). 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
	Investment 10, L.L.C. ("ILL10") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Illinois
	MSI BVF SPV, LLC ("MSI") c/o Magnitude Capital, LLC 601 Lexington Avenue, 59th Floor New York, NY 10022 Citizenship: Delaware
	BVF Partners L.P. ("Partners") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 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, \$0.001 par value (the "Common Stock")			
Item 2(e).	CUSIP	Number:		
	23282	W 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.		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).		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).		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:

The Reporting Persons, (the "Warrant Holders"), hold warrants exercisable for an aggregate of 921,052 shares of Common Stock. Such warrants are immediately exercisable for \$5.28 per share, subject to adjustment pursuant to the terms of the warrants, and expire on June 25, 2017. The warrants may not be exercised if, after such exercise, the Warrant Holders would beneficially own, as determined in accordance with Section 13(d) of the Securities Exchange Act of 1934, more than 9.98% of the number of shares of Common Stock then issued and outstanding.

As of the close of business on December 31, 2014, (i) BVF beneficially owned 1,550,980 shares of Common Stock, including 421,602 shares of Common Stock issuable upon the exercise of a certain warrant held by it, (ii) BVF2 beneficially owned 811,003 shares of Common Stock, including 225,379 shares of Common Stock issuable upon the exercise of a certain warrant held by it, (iii) ILL10 beneficially owned 436,650 shares of Common Stock, including 121,590 shares of Common Stock issuable upon the exercise of a certain warrant held by it, and (iv) MSI beneficially owned 565,519 shares of Common Stock, including 152,481 shares of Common Stock issuable upon the exercise of a certain warrant held by it.

Partners, as the general partner of BVF and BVF2 and the investment adviser of each of ILL10 and MSI, may be deemed to beneficially own 3,364,152 shares of Common Stock, including 921,052 shares of Common Stock currently issuable upon the exercise of certain warrants, beneficially owned in the aggregate by BVF, BVF2, ILL10 and MSI.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 3,364,152 shares of Common Stock, including 921,052 shares of Common Stock currently issuable upon the exercise of certain warrants, beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 3,364,152 shares of Common Stock, including 921,052 shares of Common Stock currently issuable upon the exercise of certain warrants, 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. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, ILL10 and MSI, 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 36,608,781 shares of Common Stock outstanding as of October 31, 2014 as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 6, 2014.

As of the close of business on December 31, 2014, (i) BVF beneficially owned approximately 4.2% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 2.2% of the outstanding shares of Common Stock, (iv) ILL10 beneficially owned approximately 1.2% of the outstanding shares of Common Stock and, (v) MSI beneficially owned approximately 1.5% of the outstanding shares of Common Stock, and (vi) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 9.0% of the outstanding shares of Common Stock.

CUSIP NO. 23282W 60 5 (c) Number of shares as to which such person has:					
	(c)				
	(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.	Owner	wnership of Five Percent or Less of a Class.			
	Not Applicable.				
Item 6.	Owner	hip of More than Five Percent on Behalf of Another Person.			
		tners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF, F2, ILL10 and MSI.			
Item 7.		dentification and Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent Holding Company or Control Person.			
	Not Ap	pplicable.			
Item 8.	Identification and Classification of Members of the Group.				
	See Exhibit 99.1.				
Item 9.	Notice	Notice of Dissolution of Group.			
	Not Ap	oplicable.			
Item 10.	Certifications.				
	By sig	ning below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above were not			

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 13, 2015

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 PARTNERS L.P.

- 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

INVESTMENT 10, L.L.C.

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

MSI BVF SPV, LLC

- By: BVF Partners L.P., its investment adviser
- 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

Joint Filing Agreement

The undersigned hereby agree that the Statement on Amendment No. 1 to Schedule 13G dated February 13, 2015 with respect to the shares of Common Stock of Cytokinetics, Incorporated., 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 13, 2015

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 partnerBy: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 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

INVESTMENT 10, L.L.C.

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

MSI BVF SPV, LLC

- By: BVF Partners L.P., its investment adviser
- 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