Flynn James E Form SC 13G/A February 14, 2013

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 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) *

Cytokinetics, Incorporated

(Name of Issuer)

Common Stock

(Title of Class of Securities)

23282W100

(CUSIP Number)

December 31, 2012

(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)

(Page 1 of 16 Pages)

^{*} 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.

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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 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).

CUSIP No. 23282W100

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1. NAME OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Deerfield Mgmt, L.P.

2. CHECK THE APPROPRIATE BOX IF A

(a) o

MEMBER OF A GROUP*

(b) x

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF

0

SHARES BENEFICIALLY

6. SHARED VOTING POWER

BENEFICIALLY OWNED BY

32,573,325 (1)

EACH REPORTING PERSON WITH

SOLE DISPOSITIVE POWER

7.

0

8. SHARED DISPOSITIVE POWER

32,573,325 (1)

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

32,573,325 (1)

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.98%

12. TYPE OF REPORTING PERSON*

PN

(1) Comprised of an aggregate of 12,049,699 shares of common stock, 23,026 shares of common stock issuable upon the conversion of preferred stock, and warrants to purchase 20,500,600 shares of common stock held by Deerfield Partners, L.P., Deerfield International Master Fund, L.P., Deerfield Special Situations Fund, L.P., Deerfield Special Situations International Master Fund, L.P., Deerfield Private Design Fund II, L.P. and Deerfield Private Design International II, L.P., of which Deerfield Mgmt, L.P. is the general partner. The provisions of the preferred stock and warrants beneficially owned by the reporting person restrict the exercise or conversion of such securities to the extent that, upon such exercise or conversion, the number of shares then beneficially owned by the holder and its affiliates

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and any other person or entities with which such holder would constitute a Section 13(d) "group" would exceed 9.98% of the total number of shares of the Issuer then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying such preferred stock and warrants to the extent beneficial ownership of such shares would cause all reporting persons hereunder, in the aggregate, to exceed the Ownership Cap.

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(a) o

NAME OF REPORTING PERSONS
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Deerfield Management Company, L.P.

2. CHECK THE APPROPRIATE BOX IF A

MEMBER OF A GROUP* (b) x

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH 0

6. SHARED VOTING POWER

32,573,325 (2)

0

REPORTING
PERSON WITH

7. SOLE DISPOSITIVE POWER

8. SHARED DISPOSITIVE POWER

32,573,325 (2)

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

32,573,325 (2)

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.98%

12. TYPE OF REPORTING PERSON*

PN

(2) Comprised of an aggregate of 12,049,699 shares of common stock, an 23,026 shares of common stock issuable upon the conversion of preferred stock, and warrants to purchase 20,500,600 shares of common stock held by Deerfield Partners, L.P., Deerfield International Master Fund, L.P., Deerfield Special Situations Fund, L.P., Deerfield Private Design Fund II, L.P. and Deerfield Private Design International II, L.P., of which Deerfield Management Company, L.P. is the investment advisor. The provisions of the preferred stock and warrants beneficially owned by the reporting person restrict the exercise or

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conversion of such securities to the extent that, upon such exercise or conversion, the number of shares then beneficially owned by the holder and its affiliates and any other person or entities with which such holder would constitute a Section 13(d) "group" would exceed 9.98% of the total number of shares of the Issuer then outstanding (the "Ownership Cap"). Accordingly, notwithstanding the number of shares reported, the reporting person disclaims beneficial ownership of the shares underlying such preferred stock and warrants to the extent beneficial ownership of such shares would cause all reporting persons hereunder, in the aggregate, to exceed the Ownership Cap.

CUSIP No. 23282W100 13G Page 4 of 16 Pages 1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield Partners, L.P. 2. CHECK THE APPROPRIATE BOX IF A (a) o MEMBER OF A GROUP* (b) x SEC USE ONLY 3. 4. CITIZENSHIP OR PLACE OF ORGANIZATION Delaware 5. **SOLE VOTING POWER** 0 **NUMBER OF SHARES** 6. SHARED VOTING POWER **BENEFICIALLY** OWNED BY 4,182,658 (3) **EACH** 7. SOLE DISPOSITIVE POWER REPORTING PERSON WITH 0 8. SHARED DISPOSITIVE POWER 4,182,658 (3) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING 9. **PERSON** 4,182,658 (3) CHECK BOX IF THE AGGREGATE AMOUNT 10. IN ROW (9) EXCLUDES CERTAIN SHARES* 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 2.86% TYPE OF REPORTING PERSON* 12. PN

(3) Includes 6,224 shares of common stock issuable upon the conversion of preferred stock, and warrants to purchase 3,734,400 shares of common stock.

CUSIP No. 23282W100 13G Page 5 of 16 Pages 1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield International Master Fund, L.P. 2. CHECK THE APPROPRIATE BOX IF A (a) o MEMBER OF A GROUP* (b) x SEC USE ONLY 3. 4. CITIZENSHIP OR PLACE OF ORGANIZATION British Virgin Islands 5. **SOLE VOTING POWER** NUMBER OF 0 **SHARES** 6. SHARED VOTING POWER **BENEFICIALLY OWNED BY** 5,544,201 (4) **EACH** 7. SOLE DISPOSITIVE POWER REPORTING PERSON WITH 0 8. SHARED DISPOSITIVE POWER 5,544,201 (4) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING 9. **PERSON** 5,544,201 (4) CHECK BOX IF THE AGGREGATE AMOUNT 10. IN ROW (9) EXCLUDES CERTAIN SHARES* PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 11. 3.76% TYPE OF REPORTING PERSON* 12. PN

(4) Includ