

**UNITED STATES  
SECURITIES AND EXCHANGE  
COMMISSION**  
Washington, D.C. 20549

OMB APPROVAL
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**SCHEDULE 13G**

Under the Securities Exchange Act of 1934  
(Amendment No. )\*

**CYTOKINETICS INCORPORATED**

(Name of Issuer)

**Common Stock**

(Title of Class of Securities)

**23282W100**

(CUSIP Number)

**December 31, 2004**

(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 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).

**Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

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1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)  
 Paul G. Allen

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2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

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3. SEC Use Only

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4. Citizenship or Place of Organization  
 United States of America

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5. Sole Voting Power  
 -0- shares

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Number of  
 Shares  
 Beneficially  
 Owned by  
 Each  
 Reporting  
 Person With

6. Shared Voting Power  
 2,314,700 shares (1)

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7. Sole Dispositive Power  
 -0- shares

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8. Shared Dispositive Power  
 2,314,700 shares (1)

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9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 2,314,700 shares(1)

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10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

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11. Percent of Class Represented by Amount in Row (9)  
 8.1%(2)

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12. Type of Reporting Person (See Instructions)  
 IN

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- (1) Directly owned by Vulcan Ventures Incorporated Paul G. Allen is the sole shareholder of Vulcan Ventures Incorporated and may be deemed to have shared voting and dispositive power with respect to these shares.
- (2) This percentage is based on 28,498,230 shares of common stock outstanding as of February 28, 2005 as reported on the Issuer's Proxy Statement filed with the SEC on April 6, 2005. Beneficial ownership is calculated in accordance with Rule 13d-3 promulgated under the Securities Exchange Act of 1934.

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)  
 Vulcan Ventures Incorporated
- 
2. Check the Appropriate Box if a Member of a Group (See Instructions)
- (a)
- (b)
- 
3. SEC Use Only
- 
4. Citizenship or Place of Organization  
 State of Washington
- 
5. Sole Voting Power  
 -0- shares
- 
- Number of  
 Shares  
 Beneficially  
 Owned by  
 Each  
 Reporting  
 Person With
6. Shared Voting Power  
 2,314,700 shares (1)
- 
7. Sole Dispositive Power  
 -0- shares
- 
8. Shared Dispositive Power  
 2,314,700 shares (1)
- 
9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 2,314,700 shares (2)
- 
10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)
- 
11. Percent of Class Represented by Amount in Row (9)  
 8.1%(2)
- 
12. Type of Reporting Person (See Instructions)  
 CO
- 

- (1) Directly owned by Vulcan Ventures Incorporated Paul G. Allen is the sole shareholder of Vulcan Ventures Incorporated and may be deemed to have shared voting and dispositive power with respect to these shares.
- (2) This percentage is based on 28,498,230 shares of common stock outstanding as of February 28, 2005 as reported on the Issuer's Proxy Statement filed with the SEC on April 6, 2005. Beneficial ownership is calculated in accordance with Rule 13d 3 promulgated under the Securities Exchange Act of 1934.

**Item 1.**

- (a) Name of Issuer  
Cytokinetics, Inc.

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- (b) Address of Issuer's Principal Executive Offices  
280 East Grand Ave.  
South San Francisco, CA 94080

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**Item 2.**

- (a) Name of Person Filing  
Paul G. Allen and Vulcan Ventures Incorporated

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- (b) Address of Principal Business Office or, if none, Residence  
The address for both filing persons is as follows:  
505 Union Station, Suite 900  
Seattle, Washington 98104

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- (c) Citizenship  
Paul G. Allen is a citizen of the United States of America.  
Vulcan Ventures Incorporated is a corporation organized under the laws of the State of Washington.

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- (d) Title of Class of Securities  
Common Stock

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- (e) CUSIP Number  
23282W100

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**Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**

- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- (e)  An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h)  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i)  A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j)  Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Not applicable.

**Item 4. Ownership**

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned:  
2,314,700 shares (1)

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- (b) Percent of class:  
8.1% (2)

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- (c) Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote  
-0- shares

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  - (ii) Shared power to vote or to direct the vote  
2,314,700 shares (1)

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(iii) Sole power to dispose or to direct the disposition of  
-0- shares

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(iv) Shared power to dispose or to direct the disposition of  
2,314,700 shares (1)

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- 
- (1) The shares are owned directly by Vulcan Ventures Incorporated and beneficially by Paul G. Allen, the sole shareholder of Vulcan Ventures Incorporated. Vulcan Ventures Incorporated and Mr. Allen may be deemed to have shared voting and dispositive power with respect to these shares.
- (2) This percentage is based on 28,498,230 shares of common stock outstanding as of February 28, 2005 as reported on the Issuer's Proxy Statement filed with the SEC on April 6, 2005. Beneficial ownership is calculated in accordance with Rule 13d-3 promulgated under the Securities Exchange Act of 1934.

**Item 5. Ownership of Five Percent or Less of a Class**

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following .

**Item 6. Ownership of More than Five Percent on Behalf of Another Person**

Not applicable.

**Item 7. Identification and Classification of the Subsidiary Which 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**

Not applicable.

**Item 9. Notice of Dissolution of Group**

Not applicable.

**Item 10. Certification**

Not applicable.

**SIGNATURES**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

May , 2005

**VULCAN VENTURES INCORPORATED**

By: /s/ W. Lance Conn

Name and Title:

W. Lance  
Conn,  
Executive  
Vice  
President

May , 2005

/s/ W. Lance Conn

Paul G. Allen

\*By: /s/ W. Lance Conn

Name:

Attorney-in Fact for Paul G. Allen

/s/ W. Lance Conn

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**EXHIBIT INDEX**

<b>Exhibit</b>	<b>Description</b>
99.1	Joint Filing Agreement

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**Joint Filing Agreement**

We, the signatories of the statement to which this Joint Filing Agreement is attached, hereby agree that such statement is filed, and any amendments thereto by either or both of us will be filed, on behalf of each of us.

Dated: May , 2005

VULCAN VENTURES INCORPORATED

By: /s/ W. Lance Conn

Name and Title:

/s/ W. Lance  
Conn,  
Executive  
Vice  
President

Dated: May , 2005

/s/ W. Lance Conn

Paul G. Allen

\*By: /s/ W. Lance Conn

Name:

Attorney-in Fact for Paul G. Allen

/s/ W. Lance Conn

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