

SPUDICH JAMES A  
Form 4  
May 21, 2010

**FORM 4**

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

OMB APPROVAL

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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
SPUDICH JAMES A

(Last) (First) (Middle)  
280 EAST GRAND AVENUE  
(Street)

SOUTH SAN FRANCISCO, CA 94080

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
CYTOKINETICS INC [CYTK]

3. Date of Earliest Transaction  
(Month/Day/Year)  
05/20/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  |                                | (A) or (D) Price  |   |  |                                   |
| Common Stock                    |                                      |  |                                |   | 180,600   | D  |                                   |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

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| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Underlying Security (Instr. 3 and 4) |              |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--------------|
|  |  |                                      |  | Code                           | V (A) (D)   | Date Exercisable   | Expiration Date                                   | Title        |
| Non-Qualified Stock Option (right to buy)  | \$ 2.81  | 05/20/2010                           |  | A                              | 20,000  | 06/20/2010 <sup>(1)</sup>                                | 05/20/2020  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 1.2   |                                      |  |                                |   | 07/10/2002 <sup>(2)</sup>                                | 07/10/2012  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 1.85  |                                      |  |                                |   | 06/21/2009 <sup>(3)</sup>                                | 05/21/2019  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 2.85  |                                      |  |                                |   | 02/02/2009 <sup>(4)</sup>                                | 01/02/2019  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 3.11  |                                      |  |                                |   | 02/04/2010 <sup>(5)</sup>                                | 01/04/2020  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 3.73  |                                      |  |                                |   | 08/01/2008 <sup>(6)</sup>                                | 07/01/2018  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 3.83  |                                      |  |                                |   | 06/22/2008 <sup>(7)</sup>                                | 05/22/2018  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 5.55  |                                      |  |                                |   | 05/19/2005   | 05/19/2015  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 6.55  |                                      |  |                                |   | 05/24/2007   | 05/24/2017  | Common Stock |
| Non-Qualified Stock Option (right to buy)  | \$ 7.29  |                                      |  |                                |   | 05/25/2006   | 05/25/2016  | Common Stock |

## Reporting Owners

Reporting Owner Name / Address

Relationships

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Director 10% Owner Officer Other

SPUDICH JAMES A  
280 EAST GRAND AVENUE X  
SOUTH SAN FRANCISCO, CA 94080

## Signatures

By: Sharon Barbari For: James A. Spudich, 05/21/2010  
Ph.D.

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) This option shall vest and become exercisable as to 20,000 shares divided into equal monthly installments such that the option shall be 100% vested on May 20, 2011.
- (2) This option is immediately exercisable upon grant and shall vest as to 417 shares on 06/01/02 and the balance of 9,583 divided into equal monthly installments thereafter such that the option shall be 100% vested on 05/01/04.
- (3) This option shall vest and become exercisable as to 15,000 shares divided into equal monthly installments such that the option shall be 100% vested on May 21, 2010.
- (4) This option shall vest and become exercisable as to 17,543 shares divided into equal monthly installments such that the option shall be 100% vested on January 2, 2010.
- (5) This option shall vest and become exercisable as to 16,077 shares divided into equal monthly installments such that the option shall be 100% vested on January 4, 2011.
- (6) This option shall vest and become exercisable as to 6,702 shares divided into equal monthly installments such that the option shall be 100% vested on January 1, 2009.
- (7) This option shall vest and become exercisable as to 15,000 shares divided into equal monthly installments such that the option shall be 100% vested on May 22, 2009.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. 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 number.