

SPUDICH JAMES A  
Form 4  
December 11, 2007

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**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

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

3. Date of Earliest Transaction  
(Month/Day/Year)  
12/10/2007

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

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

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

SOUTH SAN FRANCISCO, CA 94080

(City) (State) (Zip)

**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                    | 12/10/2007                           |  | S(1)                           | V   | 1,900 \$ 5.62   | D  |                                   |
| Common Stock                    | 12/10/2007                           |  | S(1)                           | V   | 1,000 \$ 5.64   | D  |                                   |
| Common Stock                    | 12/10/2007                           |  | S(1)                           | V   | 100 \$ 5.65   | D  |                                   |

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

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number.

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

| 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 Amount of Underlying Security (Instr. 3 and 4) |                  |                 |       |                            |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|------------------|-----------------|-------|----------------------------|
|  |  |                                      |  | Code                           | V   | (A)  | (D)   | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Non-Qualified Stock Option (right to buy)  | \$ 1.2   |                                      |  |                                |   | 07/10/2002 <sup>(2)</sup>                                | 07/10/2012  | Common Stock     | 10,000          |       |                            |
| Non-Qualified Stock Option (right to buy)  | \$ 5.55  |                                      |  |                                |   | 05/19/2005   | 05/19/2015  | Common Stock     | 7,500           |       |                            |
| Non-Qualified Stock Option (right to buy)  | \$ 6.55  |                                      |  |                                |   | 05/24/2007   | 05/24/2017  | Common Stock     | 7,500           |       |                            |
| Non-Qualified Stock Option (right to buy)  | \$ 7.29  |                                      |  |                                |   | 05/25/2006   | 05/25/2016  | Common Stock     | 7,500           |       |                            |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |         |       |
|---|---------------|-----------|---------|-------|
|   | Director      | 10% Owner | Officer | Other |
| SPUDICH JAMES A<br>280 EAST GRAND AVENUE<br>SOUTH SAN FRANCISCO, CA 94080 |               | X         |         |       |

## Signatures

By: James H. Sabry For: James A. Spudich  
12/11/2007

\*\*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) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on February 8, 2007.
- (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.

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

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