SPUDICH JAMES A

Form 4

October 25, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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Check this box

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

1(b).

(Print or Type Responses)

See Instruction

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

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

CYTOKINETICS INC [CYTK]

(Check all applicable)

(Last) (First) (Middle)

(Street)

(State)

(Zin)

280 EAST GRAND AVENUE

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

4. If Amendment, Date Original

10% Owner Other (specify Officer (give title

10/24/2006

Filed(Month/Day/Year)

below)

6. Individual or Joint/Group Filing(Check

_X__ Director

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

SOUTH SAN FRANCISCO, CA 94080

(City)	(State) (.	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if any (Month/Day/Year)		3. 4. Securities Acc Transaction(A) or Disposed Code (D) (Instr. 8) (Instr. 3, 4 and 5			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
G			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		
Common Stock	10/24/2006		S <u>(1)</u>	300	D	\$ 6.99	222,100	D	
Common Stock	10/24/2006		S <u>(1)</u>	900	D	\$ 7	221,200	D	
Common Stock	10/24/2006		S <u>(1)</u>	600	D	\$ 7.03	220,600	D	
Common Stock	10/24/2006		S <u>(1)</u>	400	D	\$ 7.04	220,200	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)

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. Transactic Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			7. Title and Amount Underlying Securitie (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amou or Numb of Sha
Non-Qualified Stock Option (right to buy)	\$ 1.2					07/10/2002(2)	07/10/2012	Common Stock	10,00
Non-Qualified Stock Option (right to buy)	\$ 5.55					05/19/2005	05/19/2015	Common Stock	7,50
Non-Qualified Stock Option (right to buy)	\$ 7.29					05/25/2006	05/25/2016	Common Stock	7,50

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
SPUDICH JAMES A 280 EAST GRAND AVENUE SOUTH SAN FRANCISCO, CA 94080	X					
Clamature a						

Signatures

By: James H. Sabry For: James A. Spudich 10/25/2006

**Signature of Reporting Person Date

Reporting Owners 2

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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 November 2, 2005.
- (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. 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.