CYTOKINETICS INC

Check this box

if no longer

subject to

Section 16.

Form 4 or

Form 4

October 20, 2006

FORM 4

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

OMB Number:

Expires:

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response...

OMB APPROVAL

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

Form 5 obligations may continue. See Instruction

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)

1. Name and Address of Reporting Person * TRAUTMAN JAY K

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

CYTOKINETICS INC [CYTK]

(Check all applicable)

(First) (Last)

(Middle)

(Zip)

3. Date of Earliest Transaction

Director

10% Owner Other (specify

280 EAST GRAND AVENUE

(Month/Day/Year) 10/19/2006

X_ Officer (give title below)

VP, Research

(Street)

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

S

6. Individual or Joint/Group Filing(Check

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 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned **Following**

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

Reported (A) or

Transaction(s) (Instr. 3 and 4)

Code V Amount Price (D)

D

Common Stock

10/19/2006(1)

1,000

\$7 25,054

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. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr			7. Title and A Underlying S (Instr. 3 and	Securitie
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amou or Numb of Sha
Incentive Stock Option (right to buy)	\$ 1.2					07/10/2002(2)	07/10/2012	Common Stock	17,50
Incentive Stock Option (right to buy)	\$ 1.2					05/21/2003(3)	05/21/2013	Common Stock	12,50
Incentive Stock Option (right to buy)	\$ 6.5					04/08/2004(4)	03/08/2014	Common Stock	25,00
Incentive Stock Option (right to buy)	\$ 6.59					04/11/2005(5)	04/11/2015	Common Stock	30,00
Incentive Stock Option (right to buy)	\$ 6.88					01/07/2006(6)	12/15/2015	Common Stock	21,50
Incentive Stock Option (right to buy)	\$ 7.15					03/01/2006(7)	03/01/2016	Common Stock	2,50
Non-Qualified Stock Option (right to buy)	\$ 6.88					01/07/2006(6)	12/15/2015	Common Stock	43,49
Non-Qualified Stock Option (right to buy)	\$ 7.15					03/01/2006(7)	03/01/2016	Common Stock	37,50

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
TRAUTMAN JAY K			VP,			
280 EAST GRAND AVENUE SOUTH SAN FRANCISCO, CA 94080			Research			

Reporting Owners 2

Signatures

Jay K. Trautman 10/20/2006

**Signature of
Reporting Person

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

Date

- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on November 10, 2005.
- (2) This option is immediately exercisable upon grant and shall vest as to 15,625 shares on 06/03/03 and the balance of 46,875 divided into equal monthly installments thereafter such that the option shall be 100% vested on 06/03/06.
- (3) This option is immediately exercisable upon grant and shall vest as to 573 shares on 04/01/03 and the balance of 26,927 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/01/07.
- (4) This option shall vest and become exercisable as to 521 shares on 04/08/04 and the balance of 24,479 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/08/08.
- (5) This option shall vest and become exercisable as to 30,000 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2009.
- When the ISO and NQ dated 12/15/05 are combined for a total grant of 65,000 shares, the option shall vest and become exercisable as to 65,000 shares divided into equal monthly installments such that the option shall be 100% vested on 12/07/2009.
- (7) When the ISO and NQ dated 03/01/2006 are combined for a total grant of 40,000 shares, the option shall vest and become exercisable as to 40,000 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2010.

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.

Signatures 3