FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person [*] SPUDICH JAMES A						2. Issuer Name and Ticker or Trading Symbol CYTOKINETICS INC [CYTK]									5. Relationship of Reporti (Check all applicable) X Director			ng Person(s) to Issuer 10% Owner		
(Last)						3. Date of Earliest Transaction (Month/Day/Year) 02/03/2006										Officer (give title below)		Other (below)		
280 EAST GRAND AVENUE						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) SOUTH SAN FRANCISCO CA 94080															X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	City) (State) (Zip)																			
		Tab	le I - N	lon-Deri	vative	Sec	uriti	es A	cquired, [Disp	osed o	of, or l	Bene	eficial	ly Owne	d				
Date					nsaction n/Day/Year)		ny	ned n Date ay/Yea	Code (In:	Transaction Code (Instr.		4. Securities Acqu Disposed Of (D) (I and 5)			Securi Benefi Owned	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		wnership m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	t (A (C) or)	Price	Report Transa	tr. 4)					
Common Stock 02/03/2					2006	006			S ⁽¹⁾		500)	D	\$7.7	2 23	239,500		D		
Common Stock 02/03/2					2006)06			S ⁽¹⁾		1,70	0	D	\$7.7	1 23	7,800		D		
		т	able II						quired, Dis s, options						Owned					
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. Transac Code (li 8)		5. ion Number		6. Date Exercisab Expiration Date (Month/Day/Year)			Amoun Securit Underl Derivat	Title and mount of ecurities nderlying erivative ecurity (Instr. 3		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	ly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
						v	1 1 1-		Date Exercisable	Ex Da	piration ite	Title	or Nu of	mber						
Non- Qualified Stock Option (right to buy)	\$1.2								07/10/2002 ⁽²⁾	07	/10/2012	Commo Stock	ⁿ 10),000		10,000		D		
Non- Qualified Stock Option (right to	\$5.55								05/19/2005	05	/19/2015	Commo Stock	ⁿ 7	,500		7,500		D		

Explanation of Responses:

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.

By: James H. Sabry For: James <u>A. Spudich</u> 02/07/2006

** Signature of Reporting Person Date

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

 * 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.