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 Reporting Person(s) to Issuer (Check all applicable)					
(Last) (First) (Middle)					- 3. Da	3. Date of Earliest Transaction (Month/Day/Year) 05/24/2007									X Direct Office below	er (give title		10% O Other (below)		
280 EAST GRAND AVENUE						4. If Amendment, Date of Original Filed (Month/Day/Year)										r Joint/Grou	p Filir	ng (Check A	pplicable	
(Street) SOUTH SAN FRANCISCO CA 94080				-										Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)		-															
		Tab	le I - N	on-Deri	vative	Sec	uritie	es A	.cquired, D	isp	osed o	of, or	Bene	eficia	lly Owne	ed				
1. Title of Security (Instr. 3) Date (Month/Da					Exe if a	2A. Deemed Execution Date, f any Month/Day/Year)		Code (Ins	Transaction Disp Code (Instr. and		ecurities Acquired (posed Of (D) (Instr. 3 5)			Securi Benefi Owned	cially I	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amoun		A) or D)	Price			(ins	str. 4)	(Instr. 4)	
Commor	n Stock														21	0,600		D		
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)	Derivative Conversion Date Security or Exercise (Month/Day/Year			3A. Deemed Execution Date, if any (Month/Day/Year)		tion ıstr.	n Number I		Expiration D	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable	Ex Da	piration te	Title	or Nu of	umber						
Non- Qualified Stock Option (right to buy)	\$6.55	05/24/2007			A		7,500		05/24/2007	05	/24/2017	Commo Stock		,500	\$0	7,500		D		
Non- Qualified Stock Option (right to buy)	\$1.2								07/10/2002 ⁽¹⁾	07	/10/2012	Commo Stock	²ⁿ 10	0,000		10,000		D		
Non- Qualified Stock Option (right to buy)	\$5.55								05/19/2005	05,	/19/2015	Commo Stock		,500		7,500		D		
Non- Qualified Stock Option (right to buy)	\$7.29								05/25/2006	05/	/25/2016	Commo Stock		,500		7,500		D		

Explanation of Responses:

1. 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.

** 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.