## 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*						2. Issuer Name and Ticker or Trading Symbol CYTOKINETICS INC [CYTK]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
(Last)						3. Date of Earliest Transaction (Month/Day/Year) 12/14/2007								X X	Officer (give title Othe below) below			10% Ov Other (s pelow)	
280 EAST GRAND AVENUE (Street)					- 4. lf A	4. If Amendment, Date of Original Filed (Month/Day/Year)								President & CEO 6. Individual or Joint/Group Filing (Check Applicable Line)					
SOUTH	SOUTH SAN CA 94080 FRANCISCO				_									X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City) (State) (Zip)																			
		Tab	le I - N	lon-Deri	vative	Sec	urit	ies Ac	cquired, I	Disp	osed o	f, or Be	nefic	ially	Owned	l			
Date				2. Transa Date (Month/D	ay/Year) if a		A. Deemed ixecution Date, fany Month/Day/Year)		3. Transact Code (In 8)		4. Securities Ac Disposed Of (D) and 5)				5. Amou Securitio Benefici Owned Followin	es F ally (	6. Owner Form: Di (D) or Indirect ( (Instr. 4)	rect d I	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) o (D)	r Prio	ce	Reporte Transac (Instr. 3	d tion(s)	(		
Commor	Stock			12/14/	2007	:007			<b>M</b> <sup>(1)</sup>		6,702	2 A		\$ <mark>2</mark>	37,	,922	D	$\square$	
Common Stock 12/14/2				2007	.007			<b>S</b> <sup>(2)</sup>		6,702	2 D	\$5	5.39	31,	,220	D	$\dashv$		
Common Stock														12,	,500	Ι		by Trust 1 <sup>(3)</sup>	
Common Stock													12,	2,500			by Trust 2 <sup>(4)</sup>		
			Tab						quired, Di				-	Ow	ned				
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,		4. Transaction Code (Instr. 8)		5. 6. Number E		6. Date Exercisable Expiration Date (Month/Day/Year)		ole and	7. Title ar Amount o Securities Underlyin Derivativo	nount of curities iderlying rivative Security istr. 3 and 4)		3. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following	Own For Iy Dire or I	nership m: ect (D) ndirect Instr.	Beneficia Ownershi
							Dis of ( (Ins	posed D) str. 3,								Reported Transactic (Instr. 4)			
					Code	v	Dis of ( (Ins	posed D) str. 3,	Date Exercisable		xpiration ate	Title	Amou or Numb of Share	er		Reported Transactio			
Non- Qualified Stock Option (right to buy)	\$2	12/14/2007			Code	v	Dis of ( (Ins 4 ar	posed D) str. 3, nd 5)		D		Title Common Stock	or Numb of	er s	<b>\$</b> 0	Reported Transactio	on(s)	D	
Qualified Stock Option (right to buy) Incentive Stock Option (right to	\$2 \$0.58	12/14/2007				v	Dis of ( (Ins 4 ar	posed D) str. 3, nd 5) (D)	Exercisable	5) 1.	ate	Common	or Numb of Share	er s	\$0	Reported Transactic (Instr. 4)	>n(s)	D	
Qualified Stock Option (right to		12/14/2007				v	Dis of ( (Ins 4 ar	posed D) str. 3, nd 5) (D)	Exercisable	<b>D</b>	ate 2/18/2013	Common Stock	or Numb of Share 6,70	ner s )2 2	\$0	Reported Transactic (Instr. 4) 61,994	) (s)		

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)	(A) 3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr.		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 Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Incentive Stock Option (right to buy)	\$2							12/18/2003 <sup>(5)</sup>	12/18/2013	Common Stock	27,500		27,500	D	
Incentive Stock Option (right to buy)	\$6.59							04/11/2005 <sup>(9)</sup>	04/11/2015	Common Stock	45,000		45,000	D	
Incentive Stock Option (right to buy)	\$6.81							04/01/2007 <sup>(10)</sup>	03/14/2017	Common Stock	22,806		22,806	D	
Incentive Stock Option (right to buy)	\$7.15							03/01/2006 <sup>(11)</sup>	03/01/2016	Common Stock	28,494		28,494	D	
Non- Qualified Stock Option (right to buy)	\$1.2							07/10/2002 <sup>(7)</sup>	07/10/2012	Common Stock	31,667		31,667	D	
Non- Qualified Stock Option (right to buy)	\$6.81							04/01/2007 <sup>(10)</sup>	03/14/2017	Common Stock	227,194		227,194	D	
Non- Qualified Stock Option (right to buy)	\$7.15							03/01/2006 <sup>(11)</sup>	03/01/2016	Common Stock	71,506		71,506	D	

#### Explanation of Responses:

1. The exercise reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on February 27, 2007.

2. The sale reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on February 27, 2007

3. Shares held by The Bridget Blum 2003 Irrevocable Trust.

4. Shares held by The Brittany Blum 2003 Irrevocable Trust.

5. When the ISO and NQ dated 12/18/03 are combined for a total grant of 141,925 shares, the option is immediately exercisable upon grant and shall vest as to 2,365 shares on 01/18/04 and the balance of 139,560 divided into equal monthly installments thereafter such that the option shall be 100% vested on 12/18/08.

6. This option is immediately exercisable upon grant and shall vest as to 25,000 shares on 11/14/00 and the balance of 87,500 divided into equal monthly installments thereafter such that the option shall be 100% vested on 11/14/05.

7. When the ISO and NQ dated 07/10/02 are combined for a total grant of 150,000 shares, the option is immediately exercisable upon grant and shall vest as to 2,500 shares on 04/15/02 and the balance of 147,500 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/15/07.

8. This option is immediately exercisable upon grant and shall vest as to 781 shares on 04/01/03 and the balance of 36,719 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/01/07.

9. This option shall vest and become exercisable as to 45,000 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2009.

10. When the ISO and NQ dated 03/14/2007 are combined for a total grant of 250,000 shares, the option shall vest and become exercisable as to 5,208 shares on 04/01/07 and the balance of 244,792 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/01/11.

11. When the ISO and NQ dated 03/01/2006 are combined for a total grant of 100,000 shares, the option shall vest and become exercisable as to 100,000 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2010.

### Robert I. Blum

\*\* Signature of Reporting Person

12/14/2007

Date

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

 $^{\ast}$  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.

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