FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL										
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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

Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol CYTOKINETICS INC [CYTK]									Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>Didiff (Cobcit)</u>								_				- `:	X Director			10% Owner				
(Last)	(F ST GRAND	,	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/18/2010											X Officer (give title Other (specify below) President & CEO					
4. If Amendment, Date of Original Filed (Month/Day/Year)												6 1								
(Street) SOUTH SAN FRANCISCO CA 94080							4. II Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate) ((Zip)																	
		Tab	le I - N	lon-Deri	vative	Sec	uriti	es Ac	quired,	Disp	osed o	f, or E	Bene	ficial	ly Owned	i				
1. Title of Security (Instr. 3)			2. Transa Date (Month/D		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.			ities Acquired (d Of (D) (Instr. :			5. Amou Securiti Benefici Owned Followi	es ially	Form (D) o Indir	n: Direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	(A (D	or	Price	Reporte Transac (Instr. 3	d tion(s)	(Instr. 4)		(1130. 4)	
Common	Stock			02/18/2010				M ⁽¹⁾		500		A	\$1.2	18	18,916		D			
Common	Stock			02/18/2010				S ⁽²⁾	_	500	1	D	\$3.14	1 18	8,416		D			
Common	Stock											\perp			12	,500			by Trust	
Common	Stock														12	,500			by Trust 2 ⁽⁴⁾	
			Tabl						quired, D						wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any		4. Transac	ransaction Number ode (Instr. of			6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) (Instr. 3 a				and it of ies ying ive S	ecurity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e Owne s Form: ally Direct or Inc. g (I) (In:	Ownership Form: Direct (D) or Indirect (I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		expiration Date	Title	or No of	umber						
Incentive Stock Option (right to buy)	\$1.2	02/18/2010			М			500	05/21/2003	(5)	05/21/2013	Commo Stock		500	\$0	32,500)	D		
Incentive Stock Option (right to buy)	\$0.58								01/14/2000	(6)	1/14/2010	Commo		12		12		D		
Incentive Stock Option (right to buy)	\$1.2								07/10/2002	(7)	7/10/2012	Commo		8,833		18,833	3	D		
Incentive Stock Option (right to buy)	\$1.85								03/26/2009	(8)	2/26/2019	Commo		0,333		50,333	3	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)	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. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerci Expiration Da (Month/Day/Y	7. Title ar Amount of Securities Underlyin Derivativo (Instr. 3 a	of s ng e Security	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 ⁽⁹⁾	12/18/2013	Common Stock	27,500		27,500	D	
Incentive Stock Option (right to buy)	\$3.37							03/29/2008 ⁽¹⁰⁾	02/28/2018	Common Stock	8,334		8,334	D	
Incentive Stock Option (right to buy)	\$6.59							04/11/2005 ⁽¹¹⁾	04/11/2015	Common Stock	45,000		45,000	D	
Incentive Stock Option (right to buy)	\$6.81							04/01/2007 ⁽¹²⁾	03/14/2017	Common Stock	22,806		22,806	D	
Incentive Stock Option (right to buy)	\$7.15							03/01/2006 ⁽¹³⁾	03/01/2016	Common Stock	28,494		28,494	D	
Non- Qualified Stock Option (right to buy)	\$1.2							07/10/2002 ⁽⁷⁾	07/10/2012	Common Stock	12,264		12,264	D	
Non- Qualified Stock Option (right to buy)	\$1.85							03/26/2009 ⁽⁸⁾	02/26/2019	Common Stock	224,667		224,667	D	
Non- Qualified Stock Option (right to buy)	\$2							12/18/2003 ⁽⁹⁾	12/18/2013	Common Stock	48,692		48,692	D	
Non- Qualified Stock Option (right to buy)	\$3.37							03/29/2008 ⁽¹⁰⁾	02/28/2018	Common Stock	191,666		191,666	D	
Non- Qualified Stock Option (right to buy)	\$6.81							04/01/2007 ⁽¹²⁾	03/14/2017	Common Stock	227,194		227,194	D	
Non- Qualified Stock Option (right to buy)	\$7.15							03/01/2006 ⁽¹³⁾	03/01/2016	Common Stock	71,506		71,506	D	

${\bf Explanation\ of\ Responses:}$

- $1. \ The exercise \ reported \ in \ this \ Form \ 4 \ was \ effected \ pursuant \ to \ a \ Rule \ 10b5-1 \ trading \ plan \ adopted \ by \ the \ reporting \ person \ on \ February \ 13, \ 2009.$
- 2. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on February 13, 2009.
- 3. Shares held by The Bridget Blum 2003 Irrevocable Trust.
- 4. Shares held by The Brittany Blum 2003 Irrevocable Trust.

- 5. 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.
- 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. When the ISO and NQ dated 02/26/2009 are combined for a total grant of 275,000 shares, the option shall vest and become exercisable as to 5,729 shares on 03/26/09 and the balance of 269,271 divided into equal monthly installments thereafter such that the option shall be 100% vested on 02/26/13.
- 9. 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.
- 10. When the ISO and NQ dated 02/29/2008 are combined for a total grant of 200,000 shares, the option shall vest and become exercisable as to 4,166 shares on 03/29/08 and the balance of 195,834 divided into equal monthly installments thereafter such that the option shall be 100% vested on 02/29/12.
- 11. 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.
- 12. 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.
- 13. 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.

<u>Robert I. Blum</u> <u>02/22/2010</u>

** 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.

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