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* Diversity Date and Leavest Leaves Date and Leaves						2. Issuer Name and Ticker or Trading Symbol CYTOKINETICS INC [CYTK]										Relationship of Reporting Person(s) to Issuer (Check all applicable)					
Blum Robert I															- `:	X Director 10% Own					
(Last)	(F ST GRAND	,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 04/24/2009										X Officer (give title below)			Other (specify below)		
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(Street) SOUTH SAN FRANCISCO CA 94080							namer	п, рате	or On	ginai F	-ilea	(Month/□	ау/ Үеа	r)	Line	X Form f	iled by One	Repo	g (Check A orting Person One Repo	on	
(City)	(S	tate) ((Zip)																		
		Tab	le I - N	on-Deri	vative	Sec	uriti	es Ac	quire	ed, D	isp	osed o	f, or E	Bene	ficial	ly Owned	k				
1. Title of Security (Instr. 3)			2. Transa Date (Month/D		2A. Deemed Execution Date, if any (Month/Day/Year)		Cod	Transaction Code (Instr			rities Acquired (A ed Of (D) (Instr. 3,			5. Amou Securiti Benefici Owned Followi	es ially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Cod	de	v	Amount	(A (D) or)	Price	Reporte Transac (Instr. 3	tion(s)	,,			
Common	Stock			04/24/2009		9		M	1 ⁽¹⁾		324		A	\$1.2	22	2,784		D			
Common	Stock			04/24/2009				S	(2)		324		D	\$2	22	,460	460 D				
Common	Stock															12	,500	00 I		by Trust	
Common	Stock															12	,500			by Trust 2 ⁽⁴⁾	
			Tabl	e II - Der (e.a								sed of, o				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 Code (Ir 8)	tion	5. Num of Deri Secu Acqu	vative irities uired or osed 0) r. 3,	6. Date Expira (Month	Exerc	isab ate	le and	7. Title Amour Securi Under	and it of ties ying tive S	ecurity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	s Blly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercis	sable		kpiration ate	Title	OI N	umber						
Incentive Stock Option (right to buy)	\$1.2	04/24/2009			М			324	07/10/2	2002 ⁽⁵⁾	07	7/10/2012	Commo		324	\$0	33,009	9	D		
Incentive Stock Option (right to buy)	\$0.58								01/14/2	2000 ⁽⁶⁾	11	1/14/2010	Commo		12		12		D		
Incentive Stock Option (right to buy)	\$1.2								05/21/2	2003 ⁽⁷⁾	05	5/21/2013	Commo		7,500		37,500	0	D		
Incentive Stock Option (right to buy)	\$1.85								03/26/2	2009 ⁽⁸⁾	02	2/26/2019	Commo		50,333		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. Transac Code (In 8)		Secu Acqu (A) c	vative urities uired or oosed o)	6. Date Exerci Expiration Da (Month/Day/Y	te	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 ⁽⁵⁾	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	

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. 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.
- 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. 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.
- 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>04/28/2009</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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