FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL										
OMB Number: 3235-0287										
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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* BARBARI SHARON SURREY					2. Issuer Name and Ticker or Trading Symbol CYTOKINETICS INC [CYTK]									Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner									
(Last) (First) (Middle) 280 EAST GRAND AVENUE					3. Date of Earliest Transaction (Month/Day/Year) 02/24/2010									X Officer (give title below)			Other (specify below)						
(Street) SOUTH SAN FRANCISCO CA 94080					- 4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									i. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person								
(City) (State) (Zip)																1 Clauli							
		Tab	le I - N	on-Deri	vative	Sec	urities	Ac	quired, [Disp	osed o	f, or l	Bene	ficial	ly Owned	i							
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					Execution Date,			3. Transaction Code (Instr. 8) 4. Securities A Disposed Of (and 5)								Forn (D) c	n: Direct	7. Nature of Indirect Beneficial Ownership					
									Code	v	Amount	(A (C) or)	Price	Reporte Transac (Instr. 3	ed ction(s)		1. 4)	(Instr. 4)				
Common Stock				<u> </u>											14,127		27 D						
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																							
Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	on Date,		Fransaction Code (Instr.		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Se (Instr. 3 and		8. Price of Derivative Security (Instr. 5)	9. Number of derivative services Beneficially Owned Following Reported Transaction(s (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership				
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	or Nu of	ımber									
Incentive Stock Option (right to buy)	\$3.08	02/24/2010			A		38,581		03/24/2010 ⁽	1) 0	2/24/2020	Comm Stock		8,581	\$0	38,58	1	D					
Non- Qualified Stock Option (right to buy)	\$3.08	02/24/2010			A		96,419		03/24/2010 ⁽	1) 0	2/24/2020	Comm Stock		6,419	\$0	96,41	9	D					
Incentive Stock Option (right to buy)	\$1.85								03/26/2009 ⁽	2) 0	2/26/2019	Comm		3,752		43,75.	2	D					
Incentive Stock Option (right to buy)	\$3.37								03/29/2008 ⁽	3) 0	2/28/2018	Comm Stock		7,305		27,30	5	D					
Incentive Stock Option (right to buy)	\$6.59								04/11/2005 ⁽	4) 0	4/11/2015	Comm Stock		,031		1,031	ı	D					
Incentive Stock Option (right to buy)	\$6.81								04/01/2007 ⁽	5) 0	3/14/2017	Comm Stock		4,497		14,49	7	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) 1. Title of Conversion or Exercise Price of Derivative Security		ise (Month/Day/Year) /e	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr.				6. Date Exerc Expiration Day/\ (Month/Day/\	ate	7. Title at Amount of Securitie Underlyit Derivativ (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)	Beneficial Ownership
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Incentive Stock Option (right to buy)	\$7.15							03/01/2006 ⁽⁶⁾	03/01/2016	Common Stock	16,785		16,785	D	
Incentive Stock Option (right to buy)	\$9.95							09/07/2005 ⁽⁷⁾	09/15/2014	Common Stock	40,200		40,200	D	
Non- Qualified Stock Option (right to buy)	\$1.85							03/26/2009 ⁽²⁾	02/26/2019	Common Stock	106,248		106,248	D	
Non- Qualified Stock Option (right to buy)	\$3.37							03/29/2008 ⁽³⁾	02/28/2018	Common Stock	95,695		95,695	D	
Non- Qualified Stock Option (right to buy)	\$6.59							04/11/2005 ⁽⁴⁾	04/11/2015	Common Stock	15,469		15,469	D	
Non- Qualified Stock Option (right to buy)	\$6.81							04/01/2007 ⁽⁵⁾	03/14/2017	Common Stock	45,503		45,503	D	
Non- Qualified Stock Option (right to buy)	\$7.15							03/01/2006 ⁽⁶⁾	03/01/2016	Common Stock	43,215		43,215	D	
Non- Qualified Stock Option (right to buy)	\$9.95							09/07/2005 ⁽⁷⁾	09/15/2014	Common Stock	69,800		69,800	D	

Explanation of Responses:

- 1. When the ISO and NQ dated 02/24/2010 are combined for a total grant of 135,000 shares, the option shall vest and become exercisable as to 2,812 shares on 03/24/2010 and the balance of 132,188 divided into equal monthly installments thereafter such that the option shall be 100% vested on 02/24/2014.
- 2. When the ISO and NQ dated 02/26/2009 are combined for a total grant of 150,000 shares, the option shall vest and become exercisable as to 3,125 shares on 03/26/09 and the balance of 146,875 divided into equal monthly installments thereafter such that the option shall be 100% vested on 02/26/13.
- 3. When the ISO and NQ dated 02/29/2008 are combined for a total grant of 125,000 shares, the option shall vest and become exercisable as to 2,604 shares on 03/29/08 and the balance of 122,396 divided into equal monthly installments thereafter such that the option shall be 100% vested on 02/29/12.
- 4. When the ISO and NQ dated 04/11/05 are combined for a total grant of 16,500 shares, the option shall vest and become exercisable as to 16,500 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2009.
- 5. When the ISO and NQ dated 03/14/2007 are combined for a total grant of 60,000 shares, the option shall vest and become exercisable as to 1,250 shares on 04/01/07 and the balance of 58,750 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/01/11.
- 6. When the ISO and NQ dated 03/01/2006 are combined for a total grant of 60,000 shares, the option shall vest and become exercisable as to 60,000 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2010.
- 7. When the ISO and NQ dated 09/15/04 are combined for a total grant of 110,000 shares, the option shall vest and become exercisable as to 27,500 shares on 09/07/05 and the balance of 82,500 divided into equal monthly installments thereafter such that the option shall be 100% vested on 09/07/08.

Sharon Barbari 02/26/2010

** 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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