

Blum Robert I  
 Form 4  
 April 23, 2009

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549**

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

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 OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Blum Robert I

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)  
 280 EAST GRAND AVENUE  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 04/21/2009

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
 President & CEO

SOUTH SAN FRANCISCO, CA 94080

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

(City) (State) (Zip)

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)		
				Code	V	Amount				(A) or (D)	Price
Common Stock	04/21/2009		M <sup>(1)</sup>			2,800	A	\$ 1.2	25,260	D	
Common Stock	04/21/2009		S <sup>(2)</sup>			2,800	D	\$ 2	22,460	D	
Common Stock	04/22/2009		M <sup>(1)</sup>			25,200	A	\$ 1.2	47,660	D	
Common Stock	04/22/2009		S <sup>(2)</sup>			25,200	D	\$ 2	22,460	D	
Common Stock									12,500	I	by Trust 1 (3)

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Common Stock 12,500 I by Trust 2  
(4)

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

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**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 Exercisable and Expiration Date (Month/Day/Year)	7. Title and Underlying Security (Instr. 3 and 4)	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title
Incentive Stock Option (right to buy)	\$ 1.2	04/21/2009		M	2,800	07/10/2002 <sup>(5)</sup>	07/10/2012	Common Stock
Incentive Stock Option (right to buy)	\$ 1.2	04/22/2009		M	25,200	07/10/2002 <sup>(5)</sup>	07/10/2012	Common Stock
Incentive Stock Option (right to buy)	\$ 0.58					01/14/2000 <sup>(6)</sup>	11/14/2010	Common Stock
Incentive Stock Option (right to buy)	\$ 1.2					05/21/2003 <sup>(7)</sup>	05/21/2013	Common Stock
Incentive Stock Option (right to buy)	\$ 1.85					03/26/2009 <sup>(8)</sup>	02/26/2019	Common Stock
Incentive Stock Option (right to buy)	\$ 2					12/18/2003 <sup>(9)</sup>	12/18/2013	Common Stock
Incentive Stock Option (right to buy)	\$ 3.37					03/29/2008 <sup>(10)</sup>	02/28/2018	Common Stock
Incentive Stock Option (right to buy)	\$ 6.59					04/11/2005 <sup>(11)</sup>	04/11/2015	Common Stock



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(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.

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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