FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

					01.56	ction	30(r	i) or the	investmer	II Co	mpany Act	01 1940							
1. Name and Address of Reporting Person* Sabry James H						2. Issuer Name and Ticker or Trading Symbol CYTOKINETICS INC [CYTK]									Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year) 12/02/2009										Director Officer (give title below)		Other (below)	
280 EAST GRAND AVENUE					4. If .	If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable					
(Street) SOUTH SAN FRANCISCO CA 94080						3 (Form filed by One Reporting Person Form filed by More than One Reporting Person				- 1
(City)	(S	tate) (Zip)																
		Tab	le I -	Non-Deriv	ative	Sec	urit	ies Ac	quired,	Dis	posed o	f, or Be	nefici	ially	Owned	l			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Date,						curities Acquired (A) or osed Of (D) (Instr. 3, 4 and			5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price	ı	Followin Reporte Transac (Instr. 3	d tion(s)	(Instr	4)	(Instr. 4)
Common	Stock			12/02/2	009				M ⁽¹⁾		48,906	A	\$0.	.58	48,	,906		D	
Common Stock				12/02/2009					S ⁽²⁾		33	D	\$3.	\$ 3.11 48		,873		D	
Common Stock				12/02/2009					S ⁽²⁾		11,436	D	\$3.	\$3.12		,437		D	
Common Stock				12/02/2009					S ⁽²⁾		22,538	D	\$3.	3.13 14,		,899		D	
Common Stock				12/02/2009				S ⁽²⁾		600	D	\$3.	3.135 14,		,299		D		
Common Stock			12/02/2009					S ⁽²⁾		200	D	\$3.1	375	14,	,099		D		
Common Stock			12/02/20	009				S ⁽²⁾		9,899	D	\$3.	.14	4,2	200		D		
Common Stock				12/02/2	12/02/2009			_			300	D	\$3.				_	D	
Common Stock				12/02/2	009				S ⁽²⁾		2,400	D	 	.15	-		_	D	
Common				12/02/20					S ⁽²⁾		100	D	\$3.1			400		D	
Common Stock			12/02/2009					S ⁽²⁾		700	D	 			00		D		
				12/02/2009				S ⁽²⁾		200	D	\$3.1			00	_	D		
Common Stock			12/02/2009				S ⁽²⁾		500	D	\$3.17		0			D			
			Tak	ole II - Deri (e.g.							osed of, c onvertible			Own	ed				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	tion Date,	Code (I		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercis Expiration Dat (Month/Day/Ye		te	7. Title al Amount of Securitie Underlyin Derivativ (Instr. 3 a	of s ng e Secur and 4)	of D Si	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Owners Form: Ily Direct or Indi (I) (Inst	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amou or Number of Shares	er					
Incentive Stock Option (right to buy)	\$0.58	12/02/2009			M			48,906	11/14/200	0(3)	11/14/2010	Common Stock	48,90	06	\$0	87,56	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transacti Code (Ins		5. Number		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)	\$1.2							07/10/2002 ⁽⁴⁾	07/10/2012	Common Stock	7,132		7,132	D	
Incentive Stock Option (right to buy)	\$1.2							05/21/2003 ⁽⁵⁾	05/21/2013	Common Stock	75,000		75,000	D	
Incentive Stock Option (right to buy)	\$6.5							04/08/2004 ⁽⁶⁾	03/08/2014	Common Stock	66,943		66,943	D	
Incentive Stock Option (right to buy)	\$6.59							04/11/2005 ⁽⁷⁾	04/11/2015	Common Stock	15,154		15,154	D	
Incentive Stock Option (right to buy)	\$6.81							04/01/2007 ⁽⁸⁾	03/14/2017	Common Stock	11,091		11,091	D	
Incentive Stock Option (right to buy)	\$7.15							03/01/2006 ⁽⁹⁾	03/01/2016	Common Stock	18,464		18,464	D	
Non- Qualified Stock Option (right to buy)	\$1.2							07/10/2002 ⁽⁴⁾	07/10/2012	Common Stock	122,655		122,655	D	
Non- Qualified Stock Option (right to buy)	\$6.5							04/08/2004 ⁽⁶⁾	03/08/2014	Common Stock	19,557		19,557	D	
Non- Qualified Stock Option (right to buy)	\$6.59							04/11/2005 ⁽⁷⁾	04/11/2015	Common Stock	69,846		69,846	D	
Non- Qualified Stock Option (right to buy)	\$6.81							04/01/2007 ⁽⁸⁾	03/14/2017	Common Stock	88,909		88,909	D	
Non- Qualified Stock Option (right to buy)	\$7.15							03/01/2006 ⁽⁹⁾	03/01/2016	Common Stock	131,536		131,536	D	

Explanation of Responses:

- 1. The exercise reported in this Form 4 was effected pursuant to a domestic relations court order.
- 2. The sales reported in this Form 4 were effected pursuant to a domestic relations court order.
- 3. When the ISO and NQ dated 11/14/00 are combined for a total grant of 250,000 shares, the option is immediately exercisable upon grant and shall vest as to 4,167 shares on 12/14/00 and the balance of 245,833 divided into equal monthly installments thereafter such that the option shall be 100% vested on 11/14/05.

^{4.} When the ISO and NQ dated 07/10/02 are combined for a total grant of 300,000 shares, the option is immediately exercisable upon grant and shall vest as to 5,000 shares on 04/15/02 and the balance of 295,000 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/15/07.

- 5. This option is immediately exercisable upon grant and shall vest as to 1,563 shares on 04/01/03 and the balance of 73,437 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/01/07.
- 6. When the ISO and NQ dated 03/08/04 are combined for a total grant of 86,500 shares, the option shall vest and become exercisable as to 1,802 shares on 04/08/04 and the balance of 84,698 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/08/08.
- 7. When the ISO and NQ dated 04/11/05 are combined for a total grant of 85,000 shares, the option shall vest and become exercisable as to 85,000 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2009.
- 8. When the ISO and NQ dated 03/14/2007 are combined for a total grant of 100,000 shares, the option shall vest and become exercisable as to 2,083 shares on 04/01/07 and the balance of 97,917 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/01/11.
- 9. When the ISO and NQ dated 03/01/2006 are combined for a total grant of 150,000 shares, the option shall vest and become exercisable as to 150,000 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2010.

By: Sharon Barbari For: James <u>12/04/2009</u> H. Sabry, M.D., Ph.D.

** 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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