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

1. Name and Address of Reporting Person* MORGANS DAVID J JR						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) 09/21/2009									X Officer (give title Other (specify below) EVP-Preclinical R&D						
(Street) SOUTH SAN FRANCISCO CA 94080					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line) X	,				on		
(City) (State) (Zip)																					
		Tab	le I - I	Non-Deri	vative	Sec	uriti	es Ac	quired,	Dis	posed o	of, or Be	enefic	ially	Owne	d					
1. Title of Security (Instr. 3) 2. Tra Date (Mont					tion y/Year)	Execution Date,				Disposed	I. Securities Acquired (A) Disposed Of (D) (Instr. 3, 6)					Form: (D) or Indire	direct (I)	7. Nature of Indirect Beneficial Ownership			
						Code	v	Amount	(A) or (D)		е	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)					
Common	Stock			09/21/2009					S ⁽¹⁾		300	D	\$4.	\$4.6901 59		9,200		D			
Common		09/21/2009					S ⁽¹⁾		1,400	1,400 D		7301	57,800		D						
Common		09/21/2009		9			S ⁽¹⁾		300	300 D		1.74	57	7,500		D					
Common Stock				09/21/2009		'			S ⁽¹⁾		400) D		1.75	57,100		D				
Common Stock				09/21/2009)		S ⁽¹⁾		500	D	\$4.	7501	56,600]	D				
Common Stock				09/21/2009)		S ⁽¹⁾		1,200	D	\$4.	7601	55	5,400]	D				
Common Stock				09/21/2009				S ⁽¹⁾		300	00 D		.762	55,100]	D				
Common Stock				09/21/2	2009	9			S ⁽¹⁾		100	D	\$4	1.77	55,000]	D			
Common Stock				09/21/2009		9		S ⁽¹⁾		400	D	\$4.	7701	54	1,600]	D				
Common Stock				09/21/2009					S ⁽¹⁾		100	D	\$4.	7801	54	1,500]	D			
Common Stock 09/21/20				2009				S ⁽¹⁾		2,500	D		\$5 52,000		2,000]	D				
			Tab	le II - Deri e.g.)							osed of, o		•	Own	ed						
Derivative Conversion Date Security or Exercise (Month/Day/Year) if		Execut			ction nstr.	tion Number		6. Date Exerciss Expiration Date (Month/Day/Yea			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		of De Se	erivative ecurity	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	ly Di (I) (1)	wnership orm: irect (D) r Indirect (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)		Date Exercisabl		Expiration Date	Title	Amou or Numb of Share	er							
Incentive Stock Option (right to buy)	\$1.85								03/26/2009	(2)	02/26/2019	Common Stock	43,75	51		43,751		D			
Incentive Stock Option (right to buy)	\$3.37								03/29/2008	(3)	02/28/2018	Common Stock	27,71	14		27,714		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)		3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr.		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 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)	\$ 6.5							04/08/2004 ⁽⁴⁾	03/08/2014	Common Stock	34,000		34,000	D	
Incentive Stock Option (right to buy)	\$6.59							04/11/2005 ⁽⁵⁾	04/11/2015	Common Stock	35,995		35,995	D	
Incentive Stock Option (right to buy)	\$6.81							04/01/2007 ⁽⁶⁾	03/14/2017	Common Stock	14,810		14,810	D	
Incentive Stock Option (right to buy)	\$7.15							03/01/2006 ⁽⁷⁾	03/01/2016	Common Stock	15,388		15,388	D	
Non- Qualified Stock Option (right to buy)	\$1.85							03/26/2009 ⁽²⁾	02/26/2019	Common Stock	106,249		106,249	D	
Non- Qualified Stock Option (right to buy)	\$3.37							03/29/2008 ⁽³⁾	02/28/2018	Common Stock	122,286		122,286	D	
Non- Qualified Stock Option (right to buy)	\$6.59							04/11/2005 ⁽⁵⁾	04/11/2015	Common Stock	14,005		14,005	D	
Non- Qualified Stock Option (right to buy)	\$6.81							04/01/2007 ⁽⁶⁾	03/14/2017	Common Stock	50,190		50,190	D	
Non- Qualified Stock Option (right to buy)	\$7.15							03/01/2006 ⁽⁷⁾	03/01/2016	Common Stock	44,612		44,612	D	

Explanation of Responses:

- $1. \ The sales reported in this Form \ 4 were effected pursuant to \ a \ Rule \ 10b5-1 \ trading \ plan \ adopted \ by the reporting \ person on \ September \ 30, \ 2008.$
- 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 150,000 shares, the option shall vest and become exercisable as to 3,125 shares on 03/29/08 and the balance of 146,875 divided into equal monthly installments thereafter such that the option shall be 100% vested on 02/29/12.
- 4. This option shall vest and become exercisable as to 708 shares on 04/08/04 and the balance of 33,292 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/08/08.
- 5. When the ISO and NQ dated 04/11/05 are combined for a total grant of 50,000 shares, the option shall vest and become exercisable as to 50,000 shares divided into equal monthly installments such that the option shall be 100% vested on 03/01/2009.
- 6. When the ISO and NQ dated 03/14/2007 are combined for a total grant of 65,000 shares, the option shall vest and become exercisable as to 1,354 shares on 04/01/07 and the balance of 63,646 divided into equal monthly installments thereafter such that the option shall be 100% vested on 03/01/11.
- 7. 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.

** 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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