

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* <b>MORGANS DAVID J JR</b>  (Last) (First) (Middle) <b>280 EAST GRAND AVENUE</b>  (Street) <b>SOUTH SAN FRANCISCO CA 94080</b>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <b>CYTOKINETICS INC [ CYTK ]</b>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <b>EVP-Preclinical R&amp;D</b>
	3. Date of Earliest Transaction (Month/Day/Year) <b>12/01/2008</b>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

**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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	12/01/2008		S <sup>(1)</sup>		1,380	D	\$2.08	78,120	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		155	D	\$2.09	77,965	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		1,165	D	\$2.1	76,800	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		211	D	\$2.12	76,589	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		429	D	\$2.14	76,160	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		700	D	\$2.22	75,460	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		460	D	\$2.24	75,000	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		100	D	\$2.29	74,900	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		100	D	\$2.3	74,800	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		200	D	\$2.38	74,600	D	
Common Stock	12/01/2008		S <sup>(1)</sup>		100	D	\$2.39	74,500	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. 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 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					
Incentive Stock Option (right to buy)	\$3.37							03/29/2008 <sup>(2)</sup>	02/28/2018	Common Stock		27,714	D	
Incentive Stock Option (right to buy)	\$6.5							04/08/2004 <sup>(3)</sup>	03/08/2014	Common Stock		34,000	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. 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 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)	\$6.59							04/11/2005 <sup>(4)</sup>	04/11/2015	Common Stock	35,995		35,995	D	
Incentive Stock Option (right to buy)	\$6.81							04/01/2007 <sup>(5)</sup>	03/14/2017	Common Stock	14,810		14,810	D	
Incentive Stock Option (right to buy)	\$7.15							03/01/2006 <sup>(6)</sup>	03/01/2016	Common Stock	15,388		15,388	D	
Non-Qualified Stock Option (right to buy)	\$3.37							03/29/2008 <sup>(2)</sup>	02/28/2018	Common Stock	122,286		122,286	D	
Non-Qualified Stock Option (right to buy)	\$6.59							04/11/2005 <sup>(4)</sup>	04/11/2015	Common Stock	14,005		14,005	D	
Non-Qualified Stock Option (right to buy)	\$6.81							04/01/2007 <sup>(5)</sup>	03/14/2017	Common Stock	50,190		50,190	D	
Non-Qualified Stock Option (right to buy)	\$7.15							03/01/2006 <sup>(6)</sup>	03/01/2016	Common Stock	44,612		44,612	D	

**Explanation of Responses:**

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

David J. Morgans, Jr., Ph.D.      12/02/2008  
\*\* 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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