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* HENDERSON JOHN T						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) 01/03/2011										r (give title			specify		
280 EAST GRAND AVENUE							4. If Amendment, Date of Original Filed (Month/Day/Year)									Joint/Grou	p Filir	ng (Check A	pplicable		
(Street) SOUTH SAN FRANCISCO CA 94080															X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)																		
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Ad Disposed Of (D and 5)						Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount		(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)		
Common	Stock											1,	1,500		D						
Commor	Stock													00		I	by Spouse				
			Table						quired, Dis s, options,						wned						
1. Title of Derivative Security (Instr. 3)	itle of 2. 3. Transaction 3A. Deemed Execution Date (Month/Day/Year) if any			on Date,	4. Transac Code (II 8)		5. Num of Derivat Securit Acquir (A) or Dispos of (D) (Instr.: and 5)	tive ties ed	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr and 4)		str. 3	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4)		Beneficial Ownership		
					Code	v	(4)	(D)	Date Exercisable		xpiration ate	Title	o N o	umber f							
Non-					Code	ľ	(A)	(D)	Exercisable	10	ate	Title	- 8	hares							
Qualified Stock Option (right to buy)	\$2.16	01/03/2011			A		23,148		02/03/2011 ⁽⁾	0	1/03/2021	Comi		3,148	\$0.864 ⁽²⁾	23,148	3	D			
Non- Qualified Stock Option (right to buy)	\$1.75								05/01/2009 ⁽²	3) 0.	4/01/2019	Comi		1,428		21,428	3	D			
Non- Qualified Stock Option (right to buy)	\$1.85								06/21/2009 ⁽⁴	0.	5/21/2019	Comi		5,000		15,000)	D			
Non- Qualified Stock Option (right to buy)	\$1.95								03/19/2009 ⁽⁵	5) 0	2/19/2019	Comi		0,000		30,000)	D			
buy)			<u> </u>				<u> </u>														

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. Transact Code (In 8)	of		6. Date Exerc Expiration Da (Month/Day/Y	ite	7. Title ar Amount of Securities Underlyin Derivative Security (and 4)	of s ng	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				
Non- Qualified Stock Option (right to buy)	\$2.81							06/20/2010 ⁽⁶⁾	05/20/2020	Common Stock	20,000		20,000	D	
Non- Qualified Stock Option (right to buy)	\$3.11							02/04/2010 ⁽⁷⁾	01/04/2020	Common Stock	16,077		16,077	D	

Explanation of Responses:

- 1. This option shall vest and become exercisable as to 23,148 shares divided into equal monthly installments such that the option shall be 100% vested on January 3, 2012.
- 2. This option was issued to the reporting person pursuant to the Cytokinetics 2004 Equity Incentive Plan in lieu of an annual retainer of \$20,000.
- 3. This option shall vest and become exercisable as to 21,428 shares divided into equal monthly installments such that the option shall be 100% vested on January 1, 2010.
- 4. This option shall vest and become exercisable as to 15,000 shares divided into equal monthly installments such that the option shall be 100% vested on May 21, 2010.
- 5. This option shall vest and become exercisable as to 833 shares on 03/19/09 and the balance of 29,167 divided into equal monthly installments thereafter such that the option shall be 100% vested on 02/19/12
- 6. This option shall vest and become exercisable as to 20,000 shares divided into equal monthly installments such that the option shall be 100% vested on May 20, 2011.
- 7. This option shall vest and become exercisable as to 16,077 shares divided into equal monthly installments such that the option shall be 100% vested on January 4, 2011.

By: Sharon Barbari For: John <u>01/04/2011</u> T. Henderson

** 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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