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

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)		3. Date of Earliest Transaction (Month/Day/Year) 05/18/2011										r (give title )		Other (s					
280 EAST GRAND AVENUE							ıdment,	Date	of Original	File	d (Month/E			Joint/Grou	p Filing	(Check A	pplicable		
(Street) SOUTH SAN FRANCISCO CA 94080												Line)  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. Transact Date (Month/Date)						Execution [			Code (In	Transaction Disposed Code (Instr. and 5)		rities Acquired (A ed Of (D) (Instr. 3			5. Amo Securiti Benefic Owned Followi	ies ially		Direct ct (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	Amount (A)		Price	Reporte Transac (Instr. 3	ed ction(s)			(111341. 4)
Commo	ı Stock														1,	500	D		
Common	n Stock														5	500			by Spouse
			Table						quired, Dis s, options						ned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	med on Date, (Day/Year)	4. Transac Code (Ir 8)		5. Num of Derivat Securit Acquir (A) or Dispos of (D) (Instr. : and 5)	6. Date Exercisable an Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr and 4)		C	3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly D	0. Dwnership orm: Direct (D) r Indirect ) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amo or Nun of Sha						
Non- Qualified Stock Option (right to buy)	\$1.44	05/18/2011			A		20,000		06/18/2011 <sup>(</sup>	1) (	5/18/2021	Common Stock	20,	000	\$0	20,000		D	
Non- Qualified Stock Option (right to buy)	\$1.75								05/01/2009 <sup>0</sup>	2) 0	4/01/2019	Common Stock	21,	428		21,428	3	D	
Non- Qualified Stock Option (right to buy)	\$1.85								06/21/2009 <sup>(</sup>	3) (	5/21/2019	Common Stock	15,	000		15,000	)	D	
Non- Qualified Stock	\$1.95								03/19/2009	4) 0	2/19/2019	Common Stock	30,	000		30,000		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)	Transaction of Code (Instr. Derivative		6. Date Exerc Expiration Da (Month/Day/Y	ate	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)	\$2.16							02/03/2011 <sup>(5)</sup>	01/03/2021	Common Stock	23,148		23,148	D	
Non- Qualified Stock Option (right to buy)	\$2.81							06/20/2010 <sup>(6)</sup>	05/20/2020	Common Stock	20,000		20,000	D	
Non- Qualified Stock Option (right to buy)	\$3.11							02/04/2010 <sup>(7)</sup>	01/04/2020	Common Stock	16,077		16,077	D	

## **Explanation of Responses:**

- 1. 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 18, 2012.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 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>05/19/2011</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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.