

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* SPUDICH JAMES A			2. Issuer Name and Ticker or Trading Symbol CYTKINETICS INC [CYTK]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/18/2011			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
280 EAST GRAND AVENUE (Street) SOUTH SAN FRANCISCO CA 94080			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(City)	(State)	(Zip)						

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								180,600	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
Non-Qualified Stock Option (right to buy)	\$1.44	05/18/2011		A		20,000		06/18/2011 ⁽¹⁾	05/18/2021	Common Stock	20,000	\$0	20,000	D	
Non-Qualified Stock Option (right to buy)	\$1.2							07/10/2002 ⁽²⁾	07/10/2012	Common Stock	10,000		10,000	D	
Non-Qualified Stock Option (right to buy)	\$1.85							06/21/2009 ⁽³⁾	05/21/2019	Common Stock	15,000		15,000	D	
Non-Qualified Stock Option (right to buy)	\$2.16							02/03/2011 ⁽⁴⁾	01/03/2021	Common Stock	23,148		23,148	D	
Non-Qualified Stock Option (right to buy)	\$2.81							06/20/2010 ⁽⁵⁾	05/20/2020	Common Stock	20,000		20,000	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				
Non-Qualified Stock Option (right to buy)	\$2.85							02/02/2009 ⁽⁶⁾	01/02/2019	Common Stock	17,543		17,543	D	
Non-Qualified Stock Option (right to buy)	\$3.11							02/04/2010 ⁽⁷⁾	01/04/2020	Common Stock	16,077		16,077	D	
Non-Qualified Stock Option (right to buy)	\$3.73							08/01/2008 ⁽⁸⁾	07/01/2018	Common Stock	6,702		6,702	D	
Non-Qualified Stock Option (right to buy)	\$3.83							06/22/2008 ⁽⁹⁾	05/22/2018	Common Stock	15,000		15,000	D	
Non-Qualified Stock Option (right to buy)	\$5.55							05/19/2005	05/19/2015	Common Stock	7,500		7,500	D	
Non-Qualified Stock Option (right to buy)	\$6.55							05/24/2007	05/24/2017	Common Stock	10,000		10,000	D	
Non-Qualified Stock Option (right to buy)	\$7.29							05/25/2006	05/25/2016	Common Stock	7,500		7,500	D	

Explanation of Responses:

- 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.
- This option is immediately exercisable upon grant and shall vest as to 417 shares on 06/01/02 and the balance of 9,583 divided into equal monthly installments thereafter such that the option shall be 100% vested on 05/01/04.
- 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.
- 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.
- 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.
- This option shall vest and become exercisable as to 17,543 shares divided into equal monthly installments such that the option shall be 100% vested on January 2, 2010.
- 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.
- This option shall vest and become exercisable as to 6,702 shares divided into equal monthly installments such that the option shall be 100% vested on January 1, 2009.
- 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 22, 2009.

By: Sharon Barbari For: James A. Spudich, Ph.D. 05/19/2011

** 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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