## 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 <sup>*</sup> DOW STEPHEN M						2. Issuer Name and Ticker or Trading Symbol <u>CYTOKINETICS INC</u> [ CYTK ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last)	(Fi	(First) (Middle)				3. Date of Earliest Transaction (Month/Day/Year) 05/20/2010										ficer (give title		Other (specify below)		
C/O SEVIN ROSEN FUNDS 13455 NOEL ROAD, SUITE 1670						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) DALLAS TX 75240					5									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) Date (Month/Day						Execution Date,			Transaction Dispose Code (Instr. and 5)			rities Acquired (A) o ed Of (D) (Instr. 3, 4			5. Amor Securiti Benefic Owned	es For ially (D) Ind		n: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D) Pr		e	Following (I Reported Transaction(s) (Instr. 3 and 4)		(insi	tr. 4)	(Instr. 4)	
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)	Execution Date, if any		4. Transaction Code (Instr. 8)		n of I		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		of De Se	Price erivative ecurity hstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercisable		xpiration	Title	Amour or Numbo of Shares	er						
Stock Option (Right To Buy)	\$2.81	05/20/2010			A		20,000		06/20/2010 <sup>(1</sup>	) 0	5/20/2020	Common Stock	20,00	0	\$ <b>0</b>	20,000		D		

Explanation of Responses:

1. Stock options vest and are exercisable monthly over a period of twelve months and are fully vested on May 20, 2011.

John V. Jaggers, As Attorney-In-Fact 05/21/2010

\*\* 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.

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.