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* HEIDRICH A GRANT III						Issuer Name and Ticker or Trading Symbol CYTOKINETICS INC [CYTK] Date of Earliest Transaction (Month/Day/Year)									5. Relationship of Reporting Person(s) to Issu (Check all applicable) X Director 10% Owner Officer (give title Other (spe					
(Last)	(Fi	rst) (Middle)		05/20	05/20/2010									below)	10		below)	specify	
2800 SAND HILL ROAD SUITE 250					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person						
(Street) MENLO PARK CA 94025															X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(St	tate) (Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day.						Execution Date,			Transaction Disposed Code (Instr. and 5)			ities Acqu d Of (D) (I			ies Fo cially (D In		n: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) o	Price		Reporte Transac			1. 4)	(mau. 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)	rivative Conversion Date Execution Date curity or Exercise (Month/Day/Year) if any			on Date,	4. Transaction Code (Instr. 8)		on of E		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((Instr. 4)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code V		(A)	(D)	Date Exercisable		xpiration ate	Title	Amoun or Numbe of Shares	er							
Stock Option (right to buy)	\$2.81	05/20/2010			A		20,000		06/20/2010 ⁽¹⁾	05	5/20/2020	Common Stock	20,000		\$0	20,000		D		

Explanation of Responses:

1. The option shall vest and become exercisable in equal monthly installments such that the option shall be 100% vested on May 20, 2011.

Remarks:

James T. Beck, Attorney-In-Fact for the Reporting Person

** Signature of Reporting Person Date

05/21/2010

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.