Cole Douglas G. Form 4 December 22, 2010

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

SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Last)

(Print or Type Responses)

1. Name and Address of Reporting Person * Cole Douglas G.

2. Issuer Name and Ticker or Trading

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

5. Relationship of Reporting Person(s) to

Issuer

Symbol

AVEO PHARMACEUTICALS INC

(Check all applicable)

[AVEO]

3. Date of Earliest Transaction (Month/Day/Year)

_X__ Director Officer (give title

10% Owner Other (specify

C/O AVEO PHARMACEUTICALS, 12/21/2010

(Street)

(First)

INC., 75 SIDNEY STREET

(Middle)

4. If Amendment, Date Original

Filed(Month/Day/Year) Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

CAMBRIDGE, MA 02139

(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. Transactic Code (Instr. 8)	4. Securit coor Dispos (Instr. 3, 4)	ed of (` '	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)	
Common Stock	12/21/2010		S <u>(1)</u>	844	D	\$ 14.2881 (2)	38,281	I	By AGTC Advisors Fund, L.P.	
Common Stock	12/21/2010		S(4)	13,956	D	\$ 14.2881 (2)	682,954	I	by Applied Genomics Technology Capital Fund, L.P.	
	12/22/2010		S(1)	997	D		37,284	I		

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Common Stock				\$ 14. (6)	6813			By AGTC Advisors Fund, L.P.
Common Stock	12/22/2010	S(4)	16,503 D	\$ 14. (6)	6813	666,451	I	by Applied Genomics Technology Capital Fund, L.P.

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	of Derivative		ate	7. Titl Amou Under Secur	ant of rlying rities	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene
	Derivative Security				Securities Acquired (A) or			(Instr.	. 3 and 4)		Owne Follo Repo
					Disposed of (D)						Trans (Instr
					(Instr. 3, 4, and 5)						(IIIsti
					.,				Amount		
						Date Exercisable	Expiration Date	Title	or Number		
				Code V	(A) (D)				of Shares		

(e.g., puts, calls, warrants, options, convertible securities)

Reporting Owners

Reporting Owner Name / Address	Relationships					
1	Director	10% Owner	Officer	Other		
Cole Douglas G. C/O AVEO PHARMACEUTICALS, INC. 75 SIDNEY STREET CAMBRIDGE, MA 02139	X					
Signatures						

Signatures

/s/ Joseph D. Vittiglio, Esq., 12/22/2010 attorney-in-fact

> **Signature of Reporting Person Date

2 Reporting Owners

Explanation of Responses:

- * 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).
- (1) The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by AGTC Advisors Fund, L.P. on November 9, 2010.
- The price reported in this Column 4 is a weighted average price. The shares were sold in multiple transactions at prices ranging from \$14.12 to \$14.52, inclusive. The reporting person undertakes to provide AVEO Pharmaceuticals, Inc., any security holder of AVEO Pharmaceuticals, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each price within the ranges set forth in this footnote.
 - Held by AGTC Advisors Fund, L.P.; NewcoGen Group, Inc. ("NewcoGen Inc.") is the general partner of AGTC Partners, L.P., which is the general partner of AGTC Advisors Fund, L.P. NewcoGen Inc. is a wholly-owned subsidiary of Flagship Ventures Management, Inc.
- (3) ("Flagship Inc."). Noubar B. Afeyan Ph.D. and Edwin M. Kania, Jr. are the directors of Flagship Inc. and may be deemed to have beneficial ownership with respect to all shares held by AGTC Advisors Fund, L.P. The reporting person disclaims beneficial ownership over shares held by AGTC Advisors Fund, L.P.
- (4) The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by Applied Genomic Technology Capital Fund, L.P. on November 9, 2010.
 - Held by Applied Genomic Technology Captital Fund, L.P.; NewcoGen Inc. is the general partner of AGTC Partners, L.P., which is the general partner of Applied Genomic Technology Captital Fund, L.P. NewcoGen Inc. is a wholly-owned subsidiary of Flagship Inc.
- (5) Noubar B. Afeyan Ph.D. and Edwin M. Kania, Jr. are the directors of Flagship Inc. and may be deemed to have beneficial ownership with respect to all shares held by Applied Genomic Technology Captital Fund, L.P. The reporting person disclaims beneficial ownership over shares held by Applied Genomic Technology Captital Fund, L.P.
- The price reported in this Column 4 is a weighted average price. The shares were sold in multiple transactions at prices ranging from \$14.28 to \$14.86 inclusive. The reporting person undertakes to provide AVEO Pharmaceuticals, Inc., any security holder of AVEO Pharmaceuticals, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each price within the ranges set forth in this footnote.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.