Cole Douglas G. Form 4 May 16, 2011

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **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 30(h) of the Investment Company Act of 1940

1(b).

(Last)

(Print or Type Responses)

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

(First)

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

(Middle)

AVEO PHARMACEUTICALS INC

(Month/Day/Year)

(Check all applicable)

[AVEO]

3. Date of Earliest Transaction

_X__ Director Officer (give title

10% Owner Other (specify

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

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response...

Estimated average

burden hours per

C/O AVEO PHARMACEUTICALS, 05/12/2011

INC., 75 SIDNEY STREET

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

(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 oner Dispos (Instr. 3,	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	05/12/2011		S <u>(1)</u>	919	D	\$ 17.3033 (2)	31,540	I	by AGTC Advisors Fund, L.P.		
Common Stock	05/12/2011		S(4)	15,200	D	\$ 17.3033 (2)	521,815	I	by Applied Genomic Technology Capital Fund, L.P.		
	05/13/2011		S(1)	4,639	D		26,901	I			

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Common Stock					\$ 17.7517 (<u>6)</u>			by AGTC Advisors Fund, L.P.
Common Stock	05/13/2011	S(4)	76,750	D	\$ 17.7518 <u>(6)</u>	445,065	I	by Applied Genomic Technology Capital Fund, L.P.
Common Stock	05/16/2011	S <u>(1)</u>	2,992	D	\$ 17.9772 (7)	23,909	I	by AGTC Advisors Fund, L.P.
Common Stock	05/16/2011	S <u>(4)</u>	49,500	D	\$ 17.9773	395,565	I	by Applied Genomic 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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SEC 1474 (9-02)

> 9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	isable and	7. Titl	le and	8. Price of	1
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration Date		Amou	ınt of	Derivative	
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	rlying	Security	į
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)	
	Derivative				Securities			(Instr.	3 and 4)		(
Security					Acquired						1
				(A) or						į	
					Disposed						
					of (D)						
					(Instr. 3,						
					4, and 5)						
									Amount		
									or		
						Date Expirat Exercisable Date	Expiration	Title	Number		
							Date	Titic	of		
				Code V	(A) (D)				Shares		
				Code v	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Reporting Owners 2

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Director 10% Owner Officer Other

Cole Douglas G. C/O AVEO PHARMACEUTICALS, INC. 75 SIDNEY STREET CAMBRIDGE, MA 02139



Signatures

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

05/16/2011

**Signature of Reporting Person

Date

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 \$17.30 to \$17.32, 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. Ayefan 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 owenrship 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 Capital Fund, L.P.; NewcoGen Group, Inc. ("NewcoGen") is the general partner of AGTC Partners, L.P., which is the general partner of Applied Genomic Technology Capital Fund, L.P. NewcoGen Inc. is a wholly-owned subsidiary of Flagship Ventures Management, Inc. ("Flagship"). Noubar B. Afeyan Ph.D. and Edwin M. Kania, Jr. are the directors of
- Flagship Inc. and they may be deemed to have beneficial ownership with respect to all shares held by Applied Genomic Technology Capital Fund, L.P. The reporting person disclaims beneficial ownership over shares held by Applied Genomic Technology Capital 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 \$17.30 to \$18.10, 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.
- The price reported in this Column 4 is a weighted average price. The shares were sold in multiple transactions at prices ranging from \$17.68 to \$18.52, 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.

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.

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