Cole Douglas G. Form 4 March 18, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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OMB APPROVAL

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See Instruction

Check this box

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).

(Print or Type Responses)

1. Name and Address of Reporting Person *

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to

6. Individual or Joint/Group Filing(Check

Issuer

Cole Douglas G.

AVEO PHARMACEUTICALS INC

(Check all applicable)

[AVEO]

Symbol

(Last)

3. Date of Earliest Transaction

_X__ Director

10% Owner

(Month/Day/Year)

Officer (give title

Other (specify

C/O AVEO PHARMACEUTICALS, 03/17/2010

(Street)

(First)

(Middle)

INC., 75 SIDNEY STREET

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

CAMBRIDGE, MA 02139

(City)	(State)	(Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							ially Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securitie or(A) or Disp (Instr. 3, 4 a	osed o	of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	03/17/2010		Code V	Amount 43,846	(D)	Price (1)	(Instr. 3 and 4) 43,846	I	By AGTC Advisors Fund, L.P. (3)
Common Stock	03/17/2010		С	5,713	A	(2)	49,559	I	By AGTC Advisors Fund, L.P. (3)
Common Stock	03/17/2010		С	725,384	A	<u>(1)</u>	774,943	I	By Applied Genomic Technology Capital Fund, L.P. (4)

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Common Stock 03/17/2010	C	94,531	A	(2)	869,474	I	By Applied Genomic Technology Capital Fund, L.P. (4)
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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. Transactio Code (Instr. 8)	5. Number of orDerivative 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 Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount Number Shares
Series B Convertible Preferred Stock	(1)	03/17/2010		С	175,385	<u>(1)</u>	<u>(1)</u>	Common Stock	43,84
Series D Convertible Preferred Stock	<u>(2)</u>	03/17/2010		С	22,855	(2)	(2)	Common Stock	5,713
Series B Convertible Preferred Stock	<u>(1)</u>	03/17/2010		С	2,901,538	<u>(1)</u>	<u>(1)</u>	Common Stock	725,38
Series D Convertible Preferred Stock	<u>(2)</u>	03/17/2010		С	378,126	(2)	<u>(2)</u>	Common Stock	94,53

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/ Douglas G.

Cole 03/18/2010

**Signature of Date

Reporting Person

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 Series B Convertible Preferred Stock converted into Common Stock on a 1-for-0.25 basis and had no expiration date.
- (2) The Series D Convertible Preferred Stock converted into Common Stock on a 1-for-0.25 basis and had no expiration date.
 - 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. Dr. Cole disclaims beneficial ownership over shares held by AGTC Advisors Fund, L.P.
 - Held by Applied Genomic Technology Capital Fund, L.P.; NewcoGen Inc. 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 Inc.
- (4) 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 Capital Fund, L.P. Dr. Cole disclaims beneficial ownership over shares held by Applied Genomic Technology Capital Fund, L.P.

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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