Slichenmyer William Form 4 January 19, 2012

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

30(h) of the Investment Company Act of 1940

OMB APPROVAL

OMB Number:

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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. See Instruction

1(b).

(Last)

(City)

(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

Issuer

Slichenmyer William

Symbol

AVEO PHARMACEUTICALS INC

(Check all applicable)

[AVEO]

(Middle)

(Zip)

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

Director 10% Owner X_ Officer (give title Other (specify

below)

Chief Medical Officer

C/O AVEO PHARMACEUTICALS, 01/17/2012

(Street)

(State)

(First)

INC., 75 SIDNEY STREET

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

Applicable Line)

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

CAMBRIDGE, MA 02139

| (,) | () | Tab | le I - Non-l | Derivative | e Secu | rities Acqui | rea, Disposea of, | or Beneficiali | y Owned |
|--------------------------------------|---|---|---|--|------------------|----------------------|--|---|---|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) nor Disposed of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following | 6. Ownership Form: Direct (D) or Indirect | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | Code V | Amount | (A) or (D) | Price | Reported Transaction(s) (Instr. 3 and 4) | (I) (Instr. 4) | |
| Common Stock | 01/17/2012 | | M(1) | 2,000 | A | \$ 9.64 | 8,000 | D | |
| Common Stock | 01/17/2012 | | S(1) | 2,000 | D | \$ 14.8682 (2) | 6,000 | D | |

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. Transacti Code (Instr. 8) | 5. Number on f Derivative 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 or Number of Shares |
| Stock Option (right to buy) | \$ 9.64 | 01/17/2012 | | M | 2,000 | (3) | 10/08/2019 | Common Stock | 2,000 |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Slichenmyer William

C/O AVEO PHARMACEUTICALS, INC.

75 SIDNEY STREET CAMBRIDGE, MA 02139 Chief Medical Officer

8. I De Sec (In

Signatures

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

01/19/2012

**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 exercise and sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 13, 2010.
- The price reported in this Column 4 is a weighted average price. The shares were sold in multiple transactions at prices ranging from \$14.80 to \$14.96, 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.
- (3) The option vested as to 25% of the shares on September 14, 2010 and thereafter vests in equal monthly installments as to the remaining shares through September 14, 2013.

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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