

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL	
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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* WEG KENNETH E (Last) (First) (Middle) C/O AVEO PHARMACEUTICALS, INC. 75 SIDNEY STREET (Street) CAMBRIDGE MA 02139 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol AVEO PHARMACEUTICALS INC [AVEO]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 03/17/2010	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			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)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	03/17/2010		C		41,492	A	(1)	41,492	D	
Common Stock	03/17/2010		C		200,000	A	(2)	325,000	I	By The Weg Family Limited Partnership. ⁽⁴⁾
Common Stock	03/17/2010		C		230,769	A	(3)	555,769	I	By The Weg Family Limited Partnership. ⁽⁴⁾
Common Stock								10,000	I	By Clearview Venture Partners, LLC ⁽⁵⁾

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. Transaction Code (Instr. 8)		5. Number of 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 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(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Series D Convertible Preferred Stock	(1)	03/17/2010		C		165,969		(1)	(1)	Common Stock	41,492	\$0.00	0	D	
Series A Convertible Preferred Stock	(2)	03/17/2010		C		800,000		(2)	(2)	Common Stock	200,000	\$0.00	0	I	By The Weg Family Limited Partnership. ⁽⁴⁾
Series B Convertible Preferred Stock	(3)	03/17/2010		C		923,077		(3)	(3)	Common Stock	230,769	\$0.00	0	I	By The Weg Family Limited Partnership. ⁽⁴⁾

Explanation of Responses:

- The Series D Convertible Preferred Stock converted into Common Stock on a 1-for-0.25 basis and had no expiration date.
- The Series A Convertible Preferred Stock converted into Common Stock on a 1-for-0.25 basis and had no expiration date.
- The Series B Convertible Preferred Stock converted into Common Stock on a 1-for-0.25 basis and had no expiration date.
- These shares are held by The Weg Family Limited Partnership. Mr. Weg is a member of The Weg Family Limited Partnership and may be deemed to have voting and investment power over shares held of record by it. Mr. Weg disclaims beneficial ownership over shares held of record by The Weg Family Limited Partnership except to the extent of his pecuniary interest therein.
- These shares are held by Clearview Venture Partners, LLC. Mr. Weg is a founder and a member of the board of directors of Clearview Venture Partners, LLC and may be deemed to have voting and investment power over shares held of record by it. Mr. Weg disclaims beneficial ownership over shares held of record by Clearview Venture Partners, LLC except to the extent of his pecuniary interest therein.

/s/ Kenneth E. Weg 03/18/2010

** Signature of Reporting Person Date

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.

