HIGHLAND CAPITAL PARTNERS VI LP Form SC 13G February 14, 2011

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

SCHEDULE 13G

(Rule 13d-102)

Information Statement Pursuant to Rules 13d-1 and 13d-2

Under the Securities Exchange Act of 1934 (Amendment No.)*

AVEO Pharmaceuticals, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value

(Title of Class of Securities)

053588109

(CUSIP Number)

December 31, 2010

Date of Event Which Requires Filing of the Statement

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- o Rule 13d-1(c)
- x Rule 13d-1(d)

The information required on the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

^{*}The remainder of this cover page shall be filled out for a reporting person s initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

CUSIP No. 053588109		13G	
1.	Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person		
	Highland Capital Partners VI Limited Partnership		
2.	Check the Appropriate Box if a Member of a Group (a) o (b) o		
3.	SEC Use Only		
4.	Citizenship or Place of Organization Delaware		
	5.	Sole Voting Power	
Number of			
Shares Beneficially	6.	Shared Voting Power 1,245,527	
Owned by Each Reporting	7.	Sole Dispositive Power	
Person With	8.	Shared Dispositive Power 1,245,527	
9.	Aggregate Amount Beneficially Owner 1,245,527	ed by Each Reporting Person	
10.	Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o		
11.	Percent of Class Represented by Amount in Row (9) 3.5%(1)		
12.	Type of Reporting Person PN		
(1)		ule 13G are based upon 35,509,967 shares of Common Stock outstanding as of	
November 3, 2010	0 (according to the Form 10-Q filed by the	e issuer on November 5, 2010).	

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1.	Name of Reporting Per S.S. or I.R.S. Identifica	son tion No. of Above Person	
	Highland Capital Partn	ers VI-B Limited Partnership	
2.	Check the Appropriate Box if a Member of a Group (a) 0 (b) 0		
3.	SEC Use Only		
4.	Citizenship or Place of Organization Delaware		
	5.	Sole Voting Power	
Number of Shares Beneficially Owned by	6.	Shared Voting Power 682,540	
Each Reporting Person With	7.	Sole Dispositive Power	
	8.	Shared Dispositive Power 682,540	
9.	Aggregate Amount Ber 682,540	neficially Owned by Each Reporting Person	
10.	Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o		
11.	Percent of Class Represented by Amount in Row (9) 1.9%		
12.	Type of Reporting Pers PN	on	
		3	

13G

1.	Name of Reporting Person S.S. or I.R.S. Identificati	
	Highland Entrepreneurs	Fund VI Limited Partnership
2.	Check the Appropriate B (a) (b)	Box if a Member of a Group o o
3.	SEC Use Only	
4.	Citizenship or Place of C Delaware	Organization
	5.	Sole Voting Power
Number of Shares Beneficially	6.	Shared Voting Power 61,681
Owned by Each Reporting	7.	Sole Dispositive Power
Person With	8.	Shared Dispositive Power 61,681
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 61,681	
10.	Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o	
11.	Percent of Class Represented by Amount in Row (9) 0.2%	
12.	Type of Reporting Perso PN	n
		4

13G

1.	Name of Reporting Person S.S. or I.R.S. Identification		ve Person		
	HEF VI Limited Partners	ship			
2.	Check the Appropriate B (a) (b)	ox if a Membe o o	er of a Group		
3.	SEC Use Only				
4.	Citizenship or Place of Organization Delaware				
	5.		Sole Voting Power		
Number of Shares Beneficially Owned by	6.		Shared Voting Power 61,681		
Each Reporting Person With	7.		Sole Dispositive Power		
	8.		Shared Dispositive Power 61,681		
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 61,681				
10.	Check Box if the Aggreg	gate Amount in	Row (9) Excludes Certain Shares o		
11.	Percent of Class Represented by Amount in Row (9) 0.2%				
12.	Type of Reporting Person PN	n			
			5		

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1.	Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person		
	Highland Management Partners VI Limited Partnership		
2.	Check the Appropriate Box if a Member of a Group (a) o (b) o		
3.	SEC Use Only		
4.	Citizenship or Place of Organization Delaware		
	5.	Sole	e Voting Power
Number of Shares Beneficially Owned by	6.		red Voting Power 28,067
Each Reporting Person With	7.	Sole	e Dispositive Power
1 4 3 5 3 1 1 1 1 1	8.		red Dispositive Power 18,067
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 1,928,067		
10.	Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o		9) Excludes Certain Shares o
11.	Percent of Class Represented by Amount in Row (9) 5.4%		ow (9)
12.	Type of Reporting Perso PN	on	
			6

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1.	Name of Reporting Person S.S. or I.R.S. Identification No. of	f Above Person
	Highland Management Partners V	T, Inc.
2.	Check the Appropriate Box if a M (a) o (b) o	Tember of a Group
3.	SEC Use Only	
4.	Citizenship or Place of Organizati Delaware	on
	5.	Sole Voting Power
Number of Shares Beneficially	6.	Shared Voting Power 1,989,748
Owned by Each Reporting Person With	7.	Sole Dispositive Power
reison with	8.	Shared Dispositive Power 1,989,748
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 1,989,748	
10.	Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o	
11.	Percent of Class Represented by Amount in Row (9) 5.6%	
12.	Type of Reporting Person CO	
		7

CUSIP No. 053588109 13G 1. Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Robert F. Higgins 2. Check the Appropriate Box if a Member of a Group (b) o 3. SEC Use Only 4. Citizenship or Place of Organization United States of America 5. Sole Voting Power 4,166 Number of Shares Shared Voting Power 6. Beneficially 1,989,748 Owned by Each 7. Sole Dispositive Power Reporting 4,166 Person With 8. Shared Dispositive Power 1,989,748 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,993,914 10. Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o 11. Percent of Class Represented by Amount in Row (9) 5.6% Type of Reporting Person 12.

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CUSIP No. 053588109

1. Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Paul A. Maeder 2. Check the Appropriate Box if a Member of a Group (b) o 3. SEC Use Only 4. Citizenship or Place of Organization United States of America 5. Sole Voting Power Number of Shares Shared Voting Power 6. Beneficially 1,989,748 Owned by Each 7. Sole Dispositive Power Reporting Person With 8. Shared Dispositive Power 1,989,748 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,989,748 10. Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o Percent of Class Represented by Amount in Row (9) 11. 5.6% Type of Reporting Person 12. 9

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CUSIP No. 053588109

1. Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Daniel J. Nova 2. Check the Appropriate Box if a Member of a Group (b) o 3. SEC Use Only 4. Citizenship or Place of Organization United States of America 5. Sole Voting Power Number of Shares Shared Voting Power 6. Beneficially 1,989,748 Owned by Each 7. Sole Dispositive Power Reporting Person With 8. Shared Dispositive Power 1,989,748 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,989,748 10. Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o Percent of Class Represented by Amount in Row (9) 11. 5.6% 12. Type of Reporting Person 10

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CUSIP No. 053588109

1. Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Sean M. Dalton 2. Check the Appropriate Box if a Member of a Group (b) o 3. SEC Use Only 4. Citizenship or Place of Organization United States of America 5. Sole Voting Power Number of Shares Shared Voting Power 6. Beneficially 1,989,748 Owned by Each 7. Sole Dispositive Power Reporting Person With 8. Shared Dispositive Power 1,989,748 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,989,748 10. Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o 11. Percent of Class Represented by Amount in Row (9) 12. Type of Reporting Person 11

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CUSIP No. 053588109

1. Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Robert J. Davis 2. Check the Appropriate Box if a Member of a Group (b) o 3. SEC Use Only 4. Citizenship or Place of Organization United States of America 5. Sole Voting Power Number of Shares Shared Voting Power 6. Beneficially 1,989,748 Owned by Each 7. Sole Dispositive Power Reporting Person With 8. Shared Dispositive Power 1,989,748 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,989,748 10. Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o Percent of Class Represented by Amount in Row (9) 11. 5.6% 12. Type of Reporting Person 12

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CUSIP No. 053588109

1. Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Fergal J. Mullen 2. Check the Appropriate Box if a Member of a Group (b) o 3. SEC Use Only 4. Citizenship or Place of Organization Republic of Ireland 5. Sole Voting Power Number of Shares Shared Voting Power 6. Beneficially 1,989,748 Owned by Each 7. Sole Dispositive Power Reporting Person With 8. Shared Dispositive Power 1,989,748 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,989,748 10. Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o 11. Percent of Class Represented by Amount in Row (9) 5.6% 12. Type of Reporting Person 13

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CUSIP No. 053588109

1. Name of Reporting Person S.S. or I.R.S. Identification No. of Above Person Corey M. Mulloy 2. Check the Appropriate Box if a Member of a Group (b) o 3. SEC Use Only 4. Citizenship or Place of Organization United States of America 5. Sole Voting Power Number of Shares Shared Voting Power 6. Beneficially 1,989,748 Owned by Each 7. Sole Dispositive Power Reporting Person With 8. Shared Dispositive Power 1,989,748 9. Aggregate Amount Beneficially Owned by Each Reporting Person 1,989,748 10. Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares o 11. Percent of Class Represented by Amount in Row (9) 5.6% Type of Reporting Person 12. 14

CUSIP No. 053588109

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NOTE: This Statement on Schedule 13G is being filed on behalf of: (i) Highland Capital Partners VI Limited Partnership, a Delaware limited partnership (Highland Capital VI); (ii) Highland Capital Partners VI-B Limited Partnership, a Delaware limited partnership (Highland Capital VI); VI-B); (iii) Highland Entrepreneurs Fund VI Limited Partnership, a Delaware limited partnership (Highland Entrepreneurs Fund and together with Highland Capital VI and Highland Capital VI-B, the Highland Investing Entities); (iv) HEF VI Limited Partnership, a Delaware limited partnership and general partner of Highland Entrepreneurs Fund (HEF VI); (v) Highland Management Partners VI Limited Partnership, a Delaware limited partnership and general partner of Highland Capital VI and Highland Capital VI-B (HMP VI); (vi) Highland Management Partners VI, Inc., a Delaware corporation (Highland Management) and general partner of both HEF VI and HMP VI; (vii) Robert F. Higgins (Mr. Higgins), a senior managing director of Highland Management and a limited partner of each of HMP VI and HEF VI; (viii) Paul A. Maeder Mr. Maeder), a senior managing director of Highland Management and a limited partner of each of HMP VI and HEF VI; (ix) Daniel J. Nova (Mr. Nova), a senior managing director of Highland Management and a limited partner of each of HMP VI and HEF VI; (x) Sean M. Dalton (Mr. Dalton), a managing director of Highland Management and a limited partner of each of HMP VI and HEF VI; (xi) Robert J. Davis (Mr. Davis), a managing director of Highland Management and a limited partner of each of HMP VI and HEF VI; (xii) Fergal J. Mullen (Mr. Mullen), a managing director of Highland Management and a limited partner of each of HMP VI and HEF VI; and (xiii) Corey M. Mulloy (Mr. Mulloy and together with Mr. Higgins, Mr. Maeder, Mr. Nova, Mr. Dalton, Mr. Davis and Mr. Mullen, the Managing Directors), a managing director of Highland Management and a limited partner of each of HMP VI and HEF VI. Highland Management, as the general partner of the general partners of the Highland Investing Entities, may be deemed to have beneficial ownership of the shares held by the Highland Investing Entities. The Managing Directors of Highland Management have shared power over all investment decisions of Highland Management and therefore may be deemed to share beneficial ownership of the shares held by Highland Investing Entities by virtue of their status as controlling persons of Highland Management. Each Managing Director of Highland Management disclaims beneficial ownership of the shares held by the Highland Investing Entities, except to the extent of each such Managing Director s pecuniary interest therein. Each of Highland Management, HMP VI and HEF VI disclaims beneficial ownership of the shares held by the Highland Investing Entities, except to the extent of each such entity s pecuniary interest therein.

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CUSIP No. 055588109	13G		
Item 1(a) Item 1(b)	Name of Issuer AVEO Pharmaceuticals, Inc. Address of Issuer s Principal Executive Offices 75 Sidney Street, 4th Floor		
Item 2(a)	Cambridge, MA 02139 Name of Person Filing		
	The reporting persons are: Highland Capital Partners VI Lim	nited Partnership (Highland Capital VI);	
	Highland Capital Partners VI-B L	imited Partnership (Highland Capital VI-B);	
	Highland Entrepreneurs Fund V	I Limited Partnership (Highland Entrepreneurs Fund);	
	HEF VI Limited Partnership (HI	EF VI);	
	Highland Management Partners V	VI Limited Partnership (HMP VI);	
	Highland Management Partners V	I, Inc. (Highland Management);	
	Robert F. Higgins (Mr. Higgins);	
	Paul A. Maeder (Mr. Maeder);		
	Daniel J. Nova (Mr. Nova);		
	Sean M. Dalton (Mr. Dalton);		
	Robert J. Davis (Mr. Davis)		
	Fergal J. Mullen (Mr. Mullen);	and	
Item 2(b)	Corey M. Mulloy (Mr. Mulloy Address of Principal Business Off The address of each of the reporti	fice	
	c/o Highland Capital Partners LLC	C	
	92 Hayden Avenue		
Item 2(c)	Lexington, Massachusetts 02421 Citizenship		
	Highland Capital VI	Delaware	
	Highland Capital VI-B	Delaware	
	Highland Entrepreneurs Fund	Delaware	
	HEF VI	Delaware	
	HMP VI	Delaware	

Highland Management	Delaware
Mr. Higgins	United States of America
Mr. Maeder	United States of America
Mr. Nova	United States of America
Mr. Dalton	United States of America
Mr. Davis	United States of America
Mr. Mullen	Republic of Ireland
Mr. Mulloy	United States of America

Item 2(d)

Title of Class of Securities Common Stock, \$0.001 par value, of AVEO Pharmaceuticals, Inc.

CUSIP No. 053588109

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Item 2(e)	CUSIP Number
	053588109

Item 3	If this sta	If this statement is filed pursuant to §§ 240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:			
	(a)	0	Broker or dealer registered under section 15 of the Act (15 U.S.C. 780);		
	(b)	0	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);		
	(c)	0	Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);		
	(d)	О	Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);		
	(e)	0	An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);		
	(f)	О	An employee benefit plan or endowment fund in accordance with $\$240.13d-1(b)(1)(ii)(F)$;		
	(g)	o	A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);		
	(h)	o	A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);		
	(i)	o	A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);		
	(j)	O	Group, in accordance with \$240.13d-1(b)(1)(ii)(J). If filing as a non-U.S.		

Not applicable.

Item 4 Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

institution:

Amount beneficially owned:

As of December 31, 2010, each of the following is the owner of record of the shares of Common Stock set forth next to his or its name:

institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of

Highland Capital VI		1,245,527
Highland Capital VI-B		682,540
Highland Entrepreneurs	Fund	61,681
HEF VI		0
HMP VI		0
Highland Management		0
Mr. Higgins		4,166
Mr. Maeder		0
Mr. Nova		0
Mr. Dalton		0
Mr. Davis		0
Mr. Mullen		0
Mr. Mulloy		0

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As of December 31, 2010, Highland Capital VI was the record owner of and beneficially owned 1,245,527 shares (the HCVI Shares) of Common Stock. Highland Capital VI has the power to vote or direct the disposition of all of the HCVI Shares. Such power is exercised through Highland Management as the sole general partner of HMP VI as the sole general partner of Highland Capital VI.

As of December 31, 2010, Highland Capital VI-B was the record owner of and beneficially owned 682,540 shares (the HCVI-B Shares and together with the HCVI Shares, the HC Shares) of Common Stock. Highland Capital VI-B has the power to vote or direct the disposition of all of the HCVI-B Shares. Such power is exercised through Highland Management as the sole general partner of HMP VI as the sole general partner of Highland Capital VI-B.

As of December 31, 2010, Highland Entrepreneurs Fund was the record owner of and beneficially owned 61,681 shares (the HEF Shares and together with the HC Shares, the Shares) of Common Stock. Highland Entrepreneurs Fund has the power to vote or direct the disposition of all of the HEF Shares. Such power is exercised through Highland Management as the sole general partner of HEF VI as the sole general partner of Highland Entrepreneurs Fund.

HMP VI, as the general partner of Highland Capital VI and Highland Capital VI-B, may be deemed to own the HC Shares beneficially and HEF VI, as the general partner of Highland Entrepreneurs Fund, may be deemed to own the HEF Shares beneficially. Each of HMP VI and HEF VI disclaims beneficial ownership of the shares held by the Highland Investing Entities, except to the extent of each such entity s pecuniary interest therein.

Highland Management, as the general partner of HMP VI and HEF VI, may be deemed to own the Shares beneficially. The Managing Directors have the power over all investment decisions of Highland Management and therefore may be deemed to share beneficial ownership of the Shares by virtue of their status as controlling persons of Highland Management. Highland Management and each of the Managing Directors disclaims beneficial ownership of the Shares, except to the extent of each such entity s pecuniary interest therein.

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(b) Percent of class:

Highland Capital VI	3.5%
Highland Capital VI-B	1.9%
Highland Entrepreneurs Fund	0.2%
HEF VI	0.2%
HMP VI	5.4%
Highland Management	5.6%
Mr. Higgins	5.6%
Mr. Maeder	5.6%
Mr. Nova	5.6%
Mr. Dalton	5.6%
Mr. Davis	5.6%
Mr. Mullen	5.6%
Mr. Mulloy	5.6%

(c) Number of shares as to which the person has:

	Number of Shares			
Reporting Person	(i)	(ii)	(iii)	(iv)
Highland Capital VI	0	1,245,527	0	1,245,527
Highland Capital VI-B	0	682,540	0	682,540
Highland Entrepreneurs Fund	0	61,681	0	61,681
HEF VI	0	61,681	0	61,681
HMP VI	0	1,928,067	0	1,928,067
Highland Management	0	1,989,748	0	1,989,748
Mr. Higgins	4,166	1,989,748	4,166	1,989,748
Mr. Maeder	0	1,989,748	0	1,989,748
Mr. Nova	0	1,989,748	0	1,989,748
Mr. Dalton	0	1,989,748	0	1,989,748
Mr. Davis	0	1,989,748	0	1,989,748
Mr. Mullen	0	1,989,748	0	1,989,748
Mr. Mulloy	0	1,989,748	0	1,989,748

- (i) Sole power to vote or to direct the vote
- (ii) Shared power to vote or to direct the vote
- (iii) Sole power to dispose or to direct the disposition of
- (iv) Shared power to dispose or to direct the disposition of

Each of Highland Capital VI, Highland Capital VI-B, Highland Entrepreneurs Fund, HEF VI, HMP VI, Highland Management and the Managing Directors expressly disclaims beneficial ownership of any shares of the Common Stock of lululemon athletica inc., except any shares except to the extent of his or its pecuniary interest therein and any shares held directly of record.

Item 5 Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following o.

CUSIP No. 053588109 13G

Item 6 Ownership of More than Five Percent on Behalf of Another Person

Not applicable.

Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being

Reported on By the Parent Holding Company

Not applicable.

Item 8 Identification and Classification of Members of the Group

Each of the Reporting Persons expressly disclaims membership in a Group as defined in

Rule 13d-1(b)(ii)(J).

Item 9 Notice of Dissolution of Group

Not applicable.

Item 10 Certification

Not applicable. This Schedule 13G is not filed pursuant to Rule 13d-1(b) or Rule 13d-1(c).

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CUSIP No. 053588109 13G

SIGNATURE

After reasonable inquiry and to the best of its knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

DATED: February 14, 2011.

HIGHLAND CAPITAL PARTNERS VI LIMITED PARTNERSHIP

By: Highland Management Partners VI Limited Partnership, its general partner

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

HIGHLAND CAPITAL PARTNERS VI-B LIMITED PARTNERSHIP

By: Highland Management Partners VI Limited Partnership, its general partner

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

HIGHLAND ENTREPRENEURS FUND VI LIMITED PARTNERSHIP

By: HEF VI Limited Partnership, its general partner

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

HEF VI LIMITED PARTNERSHIP

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

CUSIP No. 053588109

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HIGHLAND MANAGEMENT PARTNERS VI LIMITED PARTNERSHIP

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

HIGHLAND MANAGEMENT PARTNERSHIP VI, INC.

By: /s/ Robert F. Higgins

Managing Director

/s/ Robert F. Higgins Robert F. Higgins

/s/ Paul A. Maeder Paul A. Maeder

/s/ Daniel J. Nova Daniel J. Nova

/s/ Sean M. Dalton Sean M. Dalton

/s/ Robert J. Davis Robert J. Davis

/s/ Fergal J. Mullen Fergal J. Mullen

/s/ Corey M. Mulloy Corey M. Mulloy CUSIP No. 053588109

EXHIBIT I

JOINT FILING AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agree that only one statement containing the information required by Schedule 13G need be filed with respect to the ownership by each of the undersigned of the shares of Common Stock of AVEO Pharmaceuticals, Inc.

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original.

EXECUTED as of this 14th day of February, 2011.

HIGHLAND CAPITAL PARTNERS VI LIMITED PARTNERSHIP

By: Highland Management Partners VI Limited Partnership, its general partner

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

HIGHLAND CAPITAL PARTNERS VI-B LIMITED PARTNERSHIP

By: Highland Management Partners VI Limited Partnership, its general partner

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

HIGHLAND ENTREPRENEURS FUND VI LIMITED PARTNERSHIP

By: HEF VI Limited Partnership, its general partner

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

HEF VI LIMITED PARTNERSHIP

By: Highland Management Partners VI, Inc., its general partner

> By: /s/ Robert F. Higgins Managing Director

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CUSIP No. 053588109

HIGHLAND MANAGEMENT PARTNERS VI LIMITED PARTNERSHIP

By: Highland Management Partners VI, Inc., its general partner

By: /s/ Robert F. Higgins

Managing Director

HIGHLAND MANAGEMENT PARTNERSHIP VI, INC.

By: /s/ Robert F. Higgins

Managing Director

/s/ Robert F. Higgins Robert F. Higgins

/s/ Paul A. Maeder Paul A. Maeder

/s/ Daniel J. Nova Daniel J. Nova

/s/ Sean M. Dalton Sean M. Dalton

/s/ Robert J. Davis Robert J. Davis

/s/ Fergal J. Mullen Fergal J. Mullen

/s/ Corey M. Mulloy Corey M. Mulloy