INITIAL STATEMENT OF 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

OMB APPROVAL

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6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting

Form filed by More than One

Person

Reporting Person

(Print or Type Responses)

1. Name and Address of Reporting Person <u>*</u> Kaye Mitchell D			2. Date of Event RequiringStatement(Month/Day/Year)	3. Issuer Name and Ticker or Trading Symbol AEOLUS PHARMACEUTICALS, INC. [AOLS]			
(Last)	(First)	(Middle)	05/08/2013	4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)		
CO ADOLL	TO						

C/O AEOLUS PHARMACEUTICALS, INC., 26361 CROWN VALLEY PARKWAY, SUITE 150

(Street)

MISSION VIEJO, CAÂ 92691

(City)	(State)	(Zip)	Table I - Non-Derivat	ive Securiti	es Beneficially Owned
1.Title of Securi (Instr. 4)	ty		2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Sto	ck, \$0.01 pa	r value per share	96,931,944	Ι	See Footnotes (1) (2) (3)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

(Check all applicable)

(give title below) (specify below)

_X__ Director

Officer

10% Owner

_ Other

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 control number.

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

1. Title of Derivative Security	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
(Instr. 4)	Expiration Date	Securities Underlying	Conversion	Ownership	Beneficial Ownership

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(Month/Day/Year)			Derivative Security (Instr. 4)		or Exercise Price of	Form of Derivative	(Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security	Security: Direct (D) or Indirect (I) (Instr. 5)	

Reporting Owners

Reporting Owner Name / Address		Relationships				
		Director	10% Owner	Officer	Other	
Kaye Mitchell D C/O AEOLUS PHARMACEUTICALS, INC. 26361 CROWN VALLEY PARKWAY, SUITE 150 MISSION VIEJO, CA 92691			Â	Â	Â	
Signatures						
/s/ Mitchell D. Kaye	05/10/2013					

**Signature of Reporting Person

Explanation of Responses:

If the form is filed by more than one reporting person, see Instruction 5(b)(v).

Date

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

The reporting person, Mitchell D. Kaye ("Mr. Kaye"), is a Co-Managing Member of Xmark Capital Partners, LLC, a Delaware limited liability company ("Capital Partners"), which is the Managing Member of Xmark Opportunity Partners, LLC, a Delaware limited liability company ("Opportunity Partners"). Opportunity Partners is the sole member of the investment manager of Xmark Opportunity Fund,

(1) L.P., a Delaware limited partnership ("Opportunity LP"), and Xmark Opportunity Fund, Ltd., a Cayman Islands exempted company ("Opportunity Ltd," and, together with Opportunity LP, the "Investors"), and, as such, possesses the sole power to vote and the sole power to direct the disposition of all securities of Aeolus Pharmaceuticals, Inc., a Delaware corporation (the "Company"), held by the Investors.

Opportunity Partners is the investment manager of Xmark JV Investment Partners, LLC, a Delaware limited liability company ("JV Partners"), and, as such, possesses the sole power to vote and the sole power to direct the disposition of all securities of the Company held by JV Partners. Collectively, Opportunity LP and Opportunity Ltd hold a majority of the membership interests in Goodnow Capital,

(2) L.L.C., a Delaware limited liability company ("Goodnow"), and, as such, possesses the sole power to vote and the sole power to direct the disposition of all securities of the Company held by Goodnow. David C. Cavalier, a Co-Managing Member of Capital Partners, and Mr. Kaye share voting and dispositive power with respect to all securities beneficially owned by Opportunity Partners.

Mr. Kaye's interest in the securities reported herein is limited to the extent of his pecuniary interest in Opportunity LP, Opportunity Ltd and JV Partners, if any, and neither the filing of this Form 4 nor any of its contents shall be deemed to constitute an admission by Mr.

(3) Kaye or any other person/entity that he or it was or is the beneficial owner of any of the securities referred to herein for purposes of Section 16 of the Securities Exchange Act of 1934, or for any other purpose.

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.