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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 * <u>Joyce James A</u> (Last) (First) (Middle) <u>8910 UNIVERSITY CENTER LANE, SUITE 255</u> (Street) <u>SAN DIEGO, CA 92122</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>AETHLON MEDICAL INC [AEMD.OB]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Chair., Pres., CEO, CFO, Sec.</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>12/30/2009</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

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	12/30/2009		G	V	300,000	D	\$0 ⁽¹⁾	400,000 ⁽²⁾	D	

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					

Explanation of Responses:

- (gift) The transaction reported herein is a donation of common stock by Mr. Joyce to a charitable organization in exchange for no consideration.
- In addition to the currently outstanding shares of common stock owned by Mr. Joyce and reported here, Mr. Joyce also beneficially owns the shares of common stock underlying the following stock options: options to purchase 2,231,100 shares of common stock at \$0.38 per share; options to purchase 2,857,143 shares of common stock at \$0.21 per share; options to purchase 2,000,000 shares of common stock at \$0.36 per share; and options to purchase 1,500,000 shares of common stock at \$0.25 per share. Pursuant to an Option Suspension Agreement entered into by Mr. Joyce and the Issuer, other than options to purchase 2,857,143 shares of common stock, Mr. Joyce has agreed not to exercise any of his options prior to June 9, 2010. In addition, the Issuer has committed to issue 4,000,000 shares of restricted common stock to Mr. Joyce at a price per share of \$0.24, in the form of a restricted stock grant, which will vest in equal installments over a thirty-six month period commencing June 9, 2010.

Remarks:

/s/ James A. Joyce 12/31/2009
 ** 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.