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

FORM 12b-25

NOTIFICATION OF LATE FILING

SEC File Number: 000-21846 CUSIP Number: 00808Y109

| (CHEC | K ONE): | ☐ Form 10-K ☐ Form N-SAR For Period Ended: December 31, 2011 ☐ Transition Report on Form 10-K ☐ Transition Report on Form 20-F ☐ Transition Report on Form 11-K ☐ Transition Report on Form 10-Q ☐ Transition Report on Form N-SAR For the Transition Period Ended: | ☐ Form 20-F ☐ Form N-CSR | □ Form 11-K | ⊠Form 10-Q | □ Form 10-D | | |
|---|---|--|--|---|---|--|--|--|
| Read Instruction (on back page) Before Preparing Form. Please Print or Type. Nothing in this form shall be construed to imply that the Commission has verified any information contained herein. | | | | | | | | |
| If the n | If the notification relates to a portion of the filing checked above, identify the Item(s) to which the notification relates: N/A | | | | | | | |
| Aethlo | I - REGI n Medica me of Re | | | | | | | |
| | Equities | | | | | | | |
| | | Applicable Center Lane, Suite 660 | | | | | | |
| Addres | s of Princ | ipal Executive Office (Street and Number) | | | | | | |
| | | fornia 92122 | | | | | | |
| City, S | ate and Z | ip Code | | | | | | |
| PART | II - RUL | ES 12b-25 (b) AND (c) | | | | | | |
| | ubject rep ppropriat | ort could not be filed without unreasonable effor e) | rt or expense and the reg | gistrant seeks relief pursuant t | o Rule 12b-25(b), the follow | owing should be completed. (Check | | |
| × | (a) (b) | The reason described in reasonable detail in Pa The subject annual report, semi-annual report, be filed on or before the fifteenth calendar day distribution report on Form 10-D, or portion the The accountant's statement or other exhibit req | transition report on For following the prescrib ereof, will be filed on or | rm 10-K, Form 20-F, Form 1 bed due date; or the subject q r before the fifth calendar day | 1-K, Form N-SAR or Formular report or transition following the prescribed | m N-CSR, or portion thereof, will on report on Form 10-Q or subject | | |
| | | | | | | | | |

PART III - NARRATIVE

(1)

State below in reasonable detail why Form 10-K, 20-F, 11-K, 10-Q, 10-D, N-SAR, N-CSR, or the transition report or portion thereof, could not be filed within the prescribed time period.

The Company and its auditors are in the process of finalizing the appropriate revenue recognition methodology related to the revenue from the Company's DARPA contract in the December 2011 period. The Company expects to file the financial statements before the end of the extension deadline.

PART IV - OTHER INFORMATION

Name and telephone number of person to contact in regard to this notification

| | James B. Frakes | (858) | 459-7800 |
|--------|--|---|---|
| | (Name) | (Area Code) | (Telephone Number) |
| (2) | Have all other periodic reports required under Section 13 of the preceding 12 months or for such shorter period that the | ` ' | 1 2 |
| (3) | Is it anticipated that any significant change in results of ope included in the subject report or portion thereof? | erations from the corresponding period for the last fisca | l year will be reflected by the earnings statements to be ☐ Yes ☒ No |
| If so, | attach an explanation of the anticipated change, both narrative | rely and quantitatively, and, if appropriate, state the rea | isons why a reasonable estimate of the results cannot be |
| | | Aethlon Medical, Inc. | |
| | (1 | Name of Registrant as Specified in Charter) | |
| has ca | nused this notification to be signed on its behalf by the undersign | gned hereunto duly authorized. | |
| Date: | February 14, 2012 | /s/ James B. Frakes | |

James B. Frakes, Chief Financial Officer