

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

**FORM 8-K**

CURRENT REPORT  
PURSUANT TO SECTION 13 OR 15(d) OF THE  
SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): September 30, 2011

**Arrhythmia Research Technology, Inc.**

*(Exact name of registrant as specified in its charter)*

Delaware  
*(State or other jurisdiction of Incorporation or  
organization)*

1-9731  
*(Commission File Number)*

72-0925679  
*(I.R.S. Employer Identification Number)*

25 Sawyer Passway  
Fitchburg, MA 01420  
*(Address of principal executive offices and zip code)*

**(978) 345-5000**  
*(Registrant's telephone number, including area code)*

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

**Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.**

Effective as of September 30, 2011, Arrhythmia Research Technology, Inc. (the "Company") entered into amendments to the Company's employment agreements with James E. Rouse, its President and Chief Executive Officer and David A. Garrison, its Executive Vice President and Chief Financial Officer. The amendment to Mr. Rouse's employment agreement extends the term of the agreement from the fifth anniversary of the October 5, 2006, effective date, to December 31, 2012, and fixes the base salary thereunder commencing as of October 5, 2011, at \$288,000. The amendment to Mr. Garrison's employment agreement extends the term of the agreement from the fifth anniversary of the January 1, 2007, effective date to December 31, 2012, and fixes the base salary thereunder commencing as of January 1, 2012 at \$192,000. The remaining terms of the employment agreements remain unchanged.

**SIGNATURE**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Fitchburg, Commonwealth of Massachusetts, on the 5th day of October, 2011.

ARRHYTHMIA RESEARCH TECHNOLOGY, INC.

By: /s/ David A. Garrison  
David A. Garrison  
Executive Vice President and  
Chief Financial Officer