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): June 2, 2012

> ARQULE, INC. (Exact Name of Issuer as Specified in Charter)

Delaware

000-21429

04-3221586

(State or other jurisdiction of incorporation)

(Commission File Number)

(I.R.S. Employer Identification No.)

19 Presidential Way Woburn, MA

(Address of principal executive offices)

01801

(Zip code)

(781) 994-0300

(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):

- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- o 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 240.12 - 4(c))

Section 7 — Regulation FD

Item 7.01 Regulation FD Disclosure..

On June 2, 2012, ArQule, Inc. (the "Registrant") announced final results from a randomized, placebo-controlled, double-blind, phase 2 clinical trial with the selective MET inhibitor tivantinib as a single-agent, investigational, second-line treatment in hepatocellular carcinoma (HCC).

The results were the subject of an oral presentation at the Annual Meeting of the American Society of Clinical Oncology on June 2, 2012. Copies of slides that accompanied the presentation may be accessed electronically at http://investors.arqule.com/data.cfm.

The Registrant's press release dated June 2, 2012, a copy of which is attached hereto as Exhibit 99.1, is incorporated herein by reference.

The information in this Form 8-K and Exhibit 99.1 attached hereto shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, nor shall such information be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, in accordance with General Instruction B.2 to Form 8-K.

Section 9 — Financial Statements and Exhibits

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No. 99.1 Text of press release announcing clinical trial results dated June 2, 2012.

SIGNATURES

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 hereunto duly authorized.

ARQULE, INC. (Registrant)

/s/ Peter S. Lawrence Peter S. Lawrence President and Chief Operating Officer

June 4, 2012

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