

ACORN ENERGY, INC.  
Form 8-K  
March 23, 2010

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) March 22, 2010

ACORN ENERGY, INC.  
(Exact name of Registrant as Specified in its Charter)

|   |                                     |  |
|---|-------------------------------------|--|
| Delaware<br>(State or Other Jurisdiction<br>of Incorporation) | 0-19771<br>(Commission file Number) | 22-2786081<br>(IRS Employer<br>Identification No.) |
|---|-------------------------------------|--|

|   |                     |
|---|---------------------|
| 4 West Rockland, Montchanin, Delaware<br>(Address of Principal Executive Offices) | 19710<br>(Zip Code) |
|---|---------------------|

Registrant's telephone number, including area code (302) 656-1707

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:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-2 under the Exchange Act (17 CFR 240.14a-2)
  - 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))
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Item 2.02 Results of Operations and Financial Condition

On March 22, 2010, the Registrant issued a press release announcing its 2009 fourth quarter and fiscal year ended December 31, 2009 results. The press release is filed as Exhibit 99.1 hereto.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

| Exhibit No. | Description                        |
|-------------|------------------------------------|
| 99.1        | Press Release dated March 22, 2010 |

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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 on this 22nd day of March, 2010.

ACORN ENERGY, INC.

|        |  |
|--------|--|
| By:    | /s/ Joe B. Cogdell, Jr.                        |
| Name:  | Joe B. Cogdell, Jr.                            |
| Title: | Vice President, General Counsel &<br>Secretary |

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