

ACORN ENERGY, INC.  
Form S-3/A  
October 25, 2010

As filed with the Securities and Exchange Commission on October 25, 2010  
Registration No. 333-169434

---

---

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

---

AMENDMENT NO. 2  
TO  
FORM S-3  
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

---

ACORN ENERGY, INC.  
(Exact name of registrant as specified in its charter)

Delaware  
(State or Other Jurisdiction of Incorporation or Organization)

22-2786081  
(I.R.S. Employer Identification No.)

John A. Moore  
President and Chief Executive Officer  
Acorn Energy, Inc.  
4 West Rockland Road  
Montchanin, Delaware 19710  
(302) 656-1707

4 West Rockland Road  
Montchanin, Delaware 19710  
(302) 656-1707  
(Address, Including Zip Code, and Telephone Number,  
Including Area Code, of Registrant's Principal Executive Offices)

(Name, Address, Including Zip Code, and  
Telephone Number,  
Including Area Code, of Agent For Service)

---

Copies to:

Joe B. Cogdell, Jr., Esq.  
Vice President, General Counsel and Secretary  
Acorn Energy, Inc.  
4 West Rockland Road  
Montchanin, Delaware 19710  
(302) 656-1707

Sheldon Krause, Esq.  
Eilenberg & Krause LLP  
11 East 44th Street, 19th Floor  
New York, New York 10017  
(212) 986-9700

Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this  
Registration Statement.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. "

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box. R

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. "

If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration number of the earlier effective registration statement for the same offering. "

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box. "

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box. "

---

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of “large accelerated filer,” “accelerated filer” and “smaller reporting company” in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer “            Accelerated filer “            Non-accelerated filer “            Smaller Reporting Company R  
(Do not check if a smaller reporting company)

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the SEC acting pursuant to said Section 8(a), may determine.

---

---

---

EXPLANATORY NOTE

This Amendment No. 2 to the Registration Statement on Form S-3 is being filed solely for the filing of re-dated consents as Exhibits 23.1 and 23.2 to the Registration Statement.

---

## PART II

## INFORMATION NOT REQUIRED IN THE PROSPECTUS

## ITEM 14. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION

Expenses payable in connection with the registration and distribution of the securities being registered hereunder, all of which will be borne by the Registrant, are as follows. All amounts are estimates, except the SEC registration fee.

SEC registration fee	\$	1,426.00
Printer expenses		5,000.00
Trustee fees and expenses		15,000.00
Legal fees and expenses		15,000.00
Accounting fees and expenses		15,000.00
Miscellaneous		2,000.00
Total	\$	53,426.00

## ITEM 15. INDEMNIFICATION OF DIRECTORS AND OFFICERS

The Certificate of Incorporation, as amended, and the Amended Bylaws of the Registrant provide that the Registrant shall indemnify its officers, directors and certain others to the fullest extent permitted by the General Corporation Law of Delaware (“DGCL”). Section 145 of the DGCL provides that the Registrant, as a Delaware corporation, is empowered, subject to certain procedures and limitations, to indemnify any person against expenses (including attorney’s fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him in connection with any threatened, pending or completed action, suit or proceeding (including a derivative action) in which such person is made a party by reason of his being or having been a director, officer, employee or agent of the Registrant (each, an “Indemnitee”); provided that the right of an Indemnitee to receive indemnification is subject to the following limitations: (i) an Indemnitee is not entitled to indemnification unless he acted in good faith and in a manner that he reasonably believed to be in or not opposed to the best interests of the Company, and, with respect to any criminal action or proceeding, had no reasonable cause to believe such conduct was unlawful and (ii) in the case of a derivative action, an Indemnitee is not entitled to indemnification in the event that he is judged to be liable to the Company (unless and only to the extent that the court determines that the Indemnitee is fairly and reasonably entitled to indemnification for such expenses as the court deems proper). The statute provides that indemnification pursuant to its provisions is not exclusive of other rights of indemnification to which a person may be entitled under any bylaw, agreement, vote of stockholders or disinterested directors, or otherwise.

Pursuant to Section 145 of the DGCL, the Registrant has purchased insurance on behalf of its present and former directors and officers against any liability asserted against or incurred by them in such capacity or arising out of their status as such.

In accordance with Section 102(b)(7) of the DGCL, the Certificate of Incorporation of the Registrant eliminates personal liability of the Registrant’s directors to the Registrant or its stockholders for monetary damages for breach of their fiduciary duties as a director, with certain limited exceptions set forth in Section 102(b) (7) of the DGCL.

The Registrant has entered into an indemnification agreement with all of its present officers and directors and plans to enter into such agreements with all future officers and directors. The terms of the agreement require that the Registrant maintain a minimum level of insurance coverage for claims against officers and directors and that the Registrant indemnify the officer and/or director against claims against them that arise in their service on behalf of the Registrant.



ITEM 16. EXHIBITS

The following exhibits are filed herewith or incorporated by reference herein:

Exhibit	Description
3.1	Certificate of Incorporation of the Registrant, with amendments thereto (incorporated herein by reference to Exhibit 3.1 to the Registrant's Registration Statement on Form S 1 (File No. 33- 70482).
3.2	Certificate of Ownership and Merger dated September 15, 2006 effecting the name change to Acorn Factor, Inc. (incorporated herein by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed September 21, 2006)
3.3	Certificate of Ownership and Merger dated December 21, 2007 effecting the name change to Acorn Energy, Inc. (incorporated herein by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed January 3, 2008).
3.4	Certificate of Amendment to the Certificate of Incorporation, filed with the Secretary of State of the State of Delaware on June 15, 2010 (incorporated herein by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed June 16, 2010).
3.5	By laws of the Registrant (incorporated herein by reference to Exhibit 3.2 to the Registrant's Registration Statement on Form S-1 (File No. 33-44027).
3.6	Amendments to the By-laws of the Registrant adopted December 27, 1994 (incorporated herein by reference to Exhibit 3.3 of the Registrant's Current Report on Form 8-K dated January 10, 1995).
4.1	Specimen certificate for the Common Stock (incorporated herein by reference to Exhibit 4.2 to the Registrant's Registration Statement on Form S-1 (File No. 33-44027).
*4.2	Form of Indenture for Debt Securities of Acorn Energy, Inc.
**4.3	Form of Debt Securities.
**4.4	Form of Warrant Agreement.
**4.5	Form of Unit Agreement.
**4.6	Form of Rights Agreement.
***5.1	Opinion of Eilenberg & Krause LLP.
*23.1	Consent of Kesselman & Kesselman.
*23.2	Consent of KPMG LLP
***23.2	Consent of Eilenberg & Krause LLP (included in Exhibit 5.1).
***24.1	

Power of Attorney of certain directors and officers of the Registrant (included in signature page of Original Registration Statement).

- 25.1 Statement of Eligibility of trustee on Form T-1 (to be filed subsequent to effectiveness pursuant to Rule 305(b)(2) of the Trust Indenture Act).



\* Filed herewith.

\*\*If applicable, to be filed by amendment or by a report filed under the Securities Exchange Act of 1934, as amended, and incorporated herein by reference.

\*\*\* Previously filed.

## ITEM 17. UNDERTAKINGS

(a) The undersigned Registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii) To reflect in the prospectus any facts or events arising after the effective date of this Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this Registration Statement. Notwithstanding the foregoing, any increase or decrease in the volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20-percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in this Registration Statement or any material change to such information in this Registration Statement;

Provided, however, That:

Paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii) of this section do not apply if the registration statement is on Form S-3 or Form F-3 and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the SEC by the registrant pursuant to section 13 or section 15(d) of the Exchange Act that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability under the Securities Act to any purchaser:

(i) If the registrant is relying on Rule 430B:

(A) Each prospectus filed by the registrant pursuant to Rule 424 (b)(3) shall be deemed to be part of this Registration Statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

II-3

---

(B) Each prospectus required to be filed pursuant to Rule 424 (b)(2), or (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or

(ii) If the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424 (b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

(5) That, for the purpose of determining liability of the registrant under the Securities Act to any purchaser in the initial distribution of the securities:

The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

(b) The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in this Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the

initial bona fide offering thereof.

II-4

---

(c) The undersigned registrant hereby undertakes to supplement the prospectus, after the expiration of the subscription period, to set forth the results of the subscription offer, the transactions by the underwriters during the subscription period, the amount of unsubscribed securities to be purchased by the underwriters, and the terms of any subsequent reoffering thereof. If any public offering by the underwriters is to be made on terms differing from those set forth on the cover page of the prospectus, a post-effective amendment will be filed to set forth the terms of such offering.

(d) The undersigned registrant hereby undertakes to deliver or cause to be delivered with the prospectus, to each person to whom the prospectus is sent or given, the latest annual report to security holders that is incorporated by reference in the prospectus and furnished pursuant to and meeting the requirements of Rule 14a-3 or Rule 14c-3 under the Exchange Act; and, where interim financial information required to be presented by Article 3 of Regulation S-X are not set forth in the prospectus, to deliver, or cause to be delivered to each person to whom the prospectus is sent or given, the latest quarterly report that is specifically incorporated by reference in the prospectus to provide such interim financial information.

(e) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that, in the opinion of the SEC, such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

(f) The undersigned registrant hereby undertakes that:

(1) for purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective; and

(2) for the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(g) The undersigned registrant hereby undertakes to file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Commission under Section 305(b)(2) of the Act.

SIGNATURES

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe it meets all requirements for filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Montchanin, State of Delaware, on October 25, 2010.

ACORN ENERGY, INC.

By: /s/ John A.  
Moore  
John A. Moore  
Chairman of the  
Board, President  
and Chief  
Executive  
Officer

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed by the following persons in the capacities indicated on October 25, 2010.

Signature	Title
/s/ John A. Moore John A. Moore	Chairman of the Board, President, Chief Executive Officer and Director (Principal Executive Officer)
/s/ Michael Barth Michael Barth	Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)
* Richard J. Giacco	Director
* George Morgenstern	Director
Joseph Musanti	Director
* Richard Rimer	Director
* Samuel M. Zentman	Director
Steven Ledger	Director

\* /s/ John A. Moore

By:

Attorney-in-Fact

II-6

---