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): October 24, 2006

ENVIRONMENTAL POWER CORPORATION

(Exact name of Company as specified in its charter)

Delaware (State or other jurisdiction

001-32393 (Commission File Number)

75-3117389 (IRS Employer

of incorporation)

Identification Number)

One Cate Street, Fourth Floor, Portsmouth, New Hampshire 03801

(Address of principal executive offices, including zip code)

(603) 431-1780

(Company s telephone number, including area code)

NONE

(Former name or former address, if changed since last report)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the Company 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-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))

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ITEM 8.01. OTHER EVENTS

On October 24, 2006, Environmental Power Corporation (the Company) announced that it and its subsidiary, Microgy, Inc., had entered into a Business Development Agreement with Cargill, Incorporated. A copy of the press release issued in connection with this announcement is filed with this Current Report on Form 8-K as Exhibit 99.1 and is incorporated herein by reference.

Also on October 24, 2006, the Company announced that it had entered into definitive agreements with certain institutional investors for the private placement of shares of its Series A 9% cumulative convertible preferred stock and warrants to purchase shares of its common stock, for an aggregate purchase price of approximately \$15,000,000. A copy of the press release issued in connection with this announcement is filed with this Current Report on Form 8-K as Exhibit 99.2 and is incorporated herein by reference.

ITEM 9.01. FINANCIAL STATEMENTS AND EXHIBITS

Exhibits

99.1 Press Release, dated October 24, 2006, relating to the Business Development Agreement with Cargill

99.2 Press Release, dated October 24, 2006, relating to the Private Placement

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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.

ENVIRONMENTAL POWER CORPORATION

By: /s/ John F. O Neill John F. O Neill Chief Financial Officer

Dated: October 24, 2006