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): December 22, 2004

PECO II, Inc.

(Exact name of registrant as specified in its charter)

Ohio (State or other jurisdiction

of incorporation)

1376 State Route 598, Galion, Ohio (Address of principal executive offices)

000-31283 (Commission File Number) 34-1605456 (I.R.S. Employer

Identification No.)

44833 (Zip Code)

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Registrant s telephone number, including area code: (419) 468-7600

(Former Name or Former Address, if Changed Since Last Report)

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 7.01. Regulation FD Disclosure.

On December 22, 2004, PECO II, Inc. issued a press release relating to certain projected financial results for the fourth quarter of 2004, which will end December 31, 2004. A copy of the press release is furnished as Exhibit 99.1 to this Form 8-K and is incorporated into Item 7.01 of this Form 8-K by reference.

The information contained in this Form 8-K, including Exhibit 99.1 attached hereto, shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, except as shall be expressly set forth by specific reference to such filing.

The information contained in this Form 8-K contains forward-looking statements, including certain statements regarding intent, beliefs, expectations, projections, forecasts and plans, which are subject to numerous assumptions, risks, and uncertainties. A number of factors described from time to time in the Company s periodic filings with the Securities and Exchange Commission could cause actual conditions, events, or results to differ significantly from those described in the forward-looking statements. All forward-looking statements included in this Form 8-K are based on information available at the time of the report. The Company assumes no obligation to update any forward-looking statement.

Item 9.01. Financial Statements and Exhibits.

(c) Exhibits.

| Exhibit No. | Description | |
|-------------|-------------|--|
| | | |

99.1 Press Release, dated December 22, 2004.

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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 hereunto duly authorized.

PECO II, Inc.

Date: December 28, 2004

By: /s/ James L. Green

James L. Green President and Chief Executive Officer

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EXHIBIT INDEX

Exhibit Description of Exhibit

99.1 Press Release, dated December 22, 2004.

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