

PECO II INC  
Form 15-12G  
April 27, 2010

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 15**

**Certification and Notice of Termination of Registration under Section 12(g) of the Securities Exchange Act of 1934 or Suspension of Duty to File Reports Under Sections 13 and 15(d) of the Securities Exchange Act of 1934.**

**Commission File Number: 000-31283**

**PECO II, Inc.**

(Exact name of registrant as specified in its charter)

601 Shiloh Road  
Plano, Texas 75074  
(972) 244-9288

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)  
Common Shares, without par value

(Title of each class of securities covered by this Form)

None

(Titles of all other classes of securities for which a duty to file reports under section 13(a) or 15(d) remains)

Please place an X in the box(es) to designate the appropriate rule provision(s) relied upon to terminate or suspend the duty to file reports:

Rule 12g-4(a)(1)	<input checked="" type="checkbox"/>
Rule 12g-4(a)(2)	<input type="checkbox"/>
Rule 12h-3(b)(1)(i)	<input checked="" type="checkbox"/>
Rule 12h-3(b)(1)(ii)	<input type="checkbox"/>
Rule 15d-6	<input type="checkbox"/>

Approximate number of holders of record as of the certification or notice date: 1

Pursuant to the requirements of the Securities Exchange Act of 1934, PECO II, Inc. has caused this certification/notice to be signed on its behalf by the undersigned duly authorized person.

Date: April 26, 2010

By: /s/ Craig A. Witsoe  
Name: Craig A. Witsoe  
Title: Chief Executive Officer