Welch Barry Edward Form 4 April 15, 2013

FORM 4

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

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005

0.5

Section 16. Form 4 or Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

response...

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person ** Welch Barry Edward	2. Issuer Name and Ticker or Trading Symbol ATLANTIC POWER CORP [AT]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(I () (I')					
(Last) (First) (Middle)	3. Date of Earliest Transaction				
	(Month/Day/Year)	Director 10% Owner			
C/O ATLANTIC POWER	02/29/2012	_X_ Officer (give title Other (specify			
CORPORATION, ONE FEDERAL		below) below) Chief Executive Officer			
ST., FLOOR 30		Chief Executive Officer			
(Street)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
	Filed(Month/Day/Year)	Applicable Line)			
		X Form filed by One Reporting Person			
BOSTON MA 02110		Form filed by More than One Reporting			

BOSTON, MA 02110

Person

(City)	(State)	(Zip) Tabl	le I - Non-I	Derivative	Secur	ities Acqu	iired, Disposed of	, or Beneficial	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired n(A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	(D)	Price	(Instr. 3 and 4)		
Common Shares (1)	02/28/2013		M	17,843	A	\$ 10.33	328,568	D	
Common Shares (1)	02/28/2013		F	5,948	D	\$ 10.33	328,568	D	
Common Shares (2)	02/28/2013		M	5,418	A	\$ 10.33	328,568	D	
Common Shares (2)	02/28/2013		F	1,806	D	\$ 10.33	328,568	D	
Common Shares (3)	02/28/2013		A	28,347	A	\$ 10.33	328,568	D	

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Common Shares (3)	02/28/2013	F	9,449	D	\$ 10.33	328,568	D
Common Shares (4)	02/28/2013	M	16,959	A	\$ 10.33	328,568	D
Common Shares (4)	02/28/2013	F	5,653	D	\$ 10.33	328,568	D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactio Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration Date		Underlying Securities (Instr. 3 and 4)		8. Pr Deri Secu (Inst
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Notional Shares	<u>(5)</u>	02/29/2012		A	16,256 (5)	<u>(5)</u>	(5)	Common Share	16,256	\$ 1
Notional Shares	<u>(6)</u>	02/29/2012		A	50,878 (<u>6)</u>	<u>(6)</u>	<u>(6)</u>	Common Share	50,878	\$ 1
Notional Shares	<u>(8)</u>	02/28/2013		M	17,843 (8)	<u>(8)</u>	(8)	Common Share	17,843	\$ 1
Notional Shares	<u>(9)</u>	02/28/2013		M	5,418 (9)	<u>(9)</u>	<u>(9)</u>	Common Share	5,418	\$ 1
Notional Shares	<u>(10)</u>	02/28/2013		M	16,959 (10)	(10)	(10)	Common Share	16,959	\$ 1

Reporting Owners

Relationships Reporting Owner Name / Address Officer Director 10% Owner Other

Welch Barry Edward C/O ATLANTIC POWER CORPORATION ONE FEDERAL ST., FLOOR 30

Chief Executive Officer

2 Reporting Owners

BOSTON, MA 02110

Signatures

/s/ Barry J. Welch

04/15/2013

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- The reporting person acquired shares pursuant to the vesting (disclosed on Table II) of notional shares awarded in 2010 in respect of the 2009 performance year. Two thirds of the vested notional shares were settled in common shares and one third were settled in cash, net of applicable tax withholding.
- The reporting person acquired shares pursuant to the vesting (disclosed on Table II) of notional shares awarded in 2012 in respect of the 2011 performance year (the "Supplemental Grant"). Two thirds of the vested notional shares were settled in common shares and one third were settled in cash, net of applicable tax withholding.
- The reporting person acquired shares pursuant to the vesting of notional shares in respect of the 2010-2012 performance period pursuant to performance conditions. Two thirds of the vested notional shares were settled in common shares and one third were settled in cash, net of applicable tax withholding.
- The reporting person acquired shares pursuant to the vesting (disclosed on Table II) of notional shares awarded in 2012 in respect of the 2011 performance year (the "Annual Grant"). Two thirds of the vested notional shares were settled in common shares and one third were settled in cash, net of applicable tax withholding.
 - Represents a grant of notional shares pursuant to the Company's Long-Term Incentive Plan ("LTIP") in 2012 in respect of the 2011 performance year that vest ratably with respect to one-third on each of February 28, 2013, February 28, 2014 and February 28, 2015.
- (5) Under the LTIP, each notional share represents a right to receive one-third in cash (net of any applicable withholdings) and the remainder in a fractional common share, or (at the election of the reporting person) one common share, or (at the discretion of the board of directors of the Company) cash only.
- Represents a grant of notional shares pursuant to LTIP in 2012 in respect of the 2011 performance year that vest ratably with respect to one-third on each of February 28, 2013, February 28, 2014 and February 28, 2015.
- The amount of securities beneficially owned following the reported transactions reflect those holdings as of the date of this Form. The total includes dividend equivalent rights accrued on the notional shares previously earned pursuant to the LTIP. Dividend equivalent rights are credited in notional shares.
- (8) The reporting person vested in respect of one-third of the notional shares granted in 2010 with respect to the 2009 performance period (including additional notional shares accrued pursuant to dividend equivalent rights).
- (9) The reporting person vested in respect of one-third of the notional shares granted in 2012 with respect to the 2011 performance period (including additional notional shares accrued pursuant to dividend equivalent rights) (the "Supplemental Grant").
- (10) The reporting person vested in respect of one-third of the notional shares granted in 2012 with respect to the 2011 performance period (including additional notional shares accrued pursuant to dividend equivalent rights) (the "Annual Grant").

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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