

COVANTA HOLDING CORP
 Form 4
 October 03, 2006

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 D.E. SHAW LAMINAR PORTFOLIOS, L.L.C.

2. Issuer Name and Ticker or Trading Symbol
 COVANTA HOLDING CORP [CVA]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 120 W 45TH STREET, TOWER 45, 39TH FLOOR
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 09/29/2006

___ Director ___X___ 10% Owner
 ___ Officer (give title below) ___X___ Other (specify below)
 See footnote 1 and 2.

NEW YORK, NY 10036

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 ___ Form filed by One Reporting Person
 ___X___ Form filed by More than One Reporting Person

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially 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 (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock	09/29/2006		S	100,000	D \$ 21.65	21,455,704	D (1) (2)
Common Stock	10/03/2006		S	250,000	D \$ 21.48	21,205,704	D (1) (2)

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

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SEC 1474 (9-02)

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__Signature of Reporting Person

Date

David E. Shaw, Name: Julius Gaudio, Title: Attorney-in-Fact for David E. Shaw

10/03/2006

__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).

(1) The securities of the Issuer to which this form relates are held directly by D. E. Shaw Laminar Portfolios, L.L.C. ("Laminar"). D. E. Shaw & Co., L.P. ("DESCO LP"), as an investment adviser to Laminar; D. E. Shaw & Co., L.L.C. ("DESCO LLC"), as managing member of Laminar; and Mr. David E. Shaw ("David E. Shaw") (as president and sole shareholder of D. E. Shaw & Co., Inc., which is the general partner of DESCO LP, and as president and sole shareholder of D. E. Shaw & Co. II, Inc., which is the managing member of DESCO LLC) may be deemed to be the beneficial owners of more than 10% of the Common Stock of the Issuer for purposes of Rule 16a-1(a) of the Securities Exchange Act of 1934. (Continued in Footnote 2)

(2) In accordance with instruction 4(b)(iv), the entire number of shares of Common Stock that may be deemed to be beneficially owned by DESCO LP or DESCO LLC is reported herein. Each of DESCO LP, DESCO LLC, and David E. Shaw disclaims any beneficial ownership of any of the securities listed in this Form 4, except to the extent of any pecuniary interest therein.

Remarks:

See Footnotes 1 and 2.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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