Venuto Joseph Form 4 March 15, 2013

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or

Form 5 obligations

may continue. See Instruction 1(b).

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 * Venuto Joseph

(Middle)

(First) (Last)

AERCAP HOUSE, STATIONSPLEIN 965

(Street)

2. Issuer Name and Ticker or Trading Symbol

AerCap Holdings N.V. [AER]

3. Date of Earliest Transaction (Month/Day/Year) 03/14/2013

4. If Amendment, Date Original

Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to

OMB

Number:

Expires:

response...

Estimated average

burden hours per

OMB APPROVAL

3235-0287

January 31,

2005

0.5

Issuer

(Check all applicable)

Director 10% Owner Other (specify X_ Officer (give title below) below)

Chief Technical Officer

6. Individual or Joint/Group Filing(Check Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

SCHIPHOL AIRPORT, P7 1117CE (City) (State) (Zip)

1. Title of 2. Transaction Date 2A. Deemed 3. Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

TransactionAcquired (A) or Code Disposed of (D) (Instr. 8)

4. Securities (Instr. 3, 4 and 5) (A)

Code V Amount (D) Price

Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)

5. Amount of

Securities

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial (T)

Ownership (Instr. 4) (Instr. 4)

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

1. Title of Derivative Conversion

or Exercise

Security

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if any

4. 5. Number of **Transaction**Derivative Code Securities

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of **Underlying Securities** (Instr. 3 and 4)

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(Instr. 3) Price of Derivative Security

(Month/Day/Year) (Instr. 8) Acquired (A)

or Disposed of

(D) (Instr. 3, 4, and 5)

Code V (A)

(D) Date Expiration Title

Amount or

Restricted

Exercisable

Date

Number of Shares

Stock Unit

(1)

03/14/2013

 $J^{(2)}$

16.545

02/14/2016 02/14/2016

Ordinary Shares

16,545

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Venuto Joseph **AERCAP HOUSE STATIONSPLEIN 965** SCHIPHOL AIRPORT, P7 1117CE

Chief Technical Officer

Signatures

/s/ Joseph Venuto

03/15/2013

**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).
- Each Restricted Stock Unit ("RSU") will convert (i) on a 1-for-1 basis into ordinary shares of the issuer upon vesting, (ii) into the cash (1) equivalent, or (iii) into a combination of items (i) and (ii).
- Grant of RSUs pursuant to AerCap Holdings N.V. 2012 Employees and Officers Equity Incentive Plan. This form is filed voluntarily. As a foreign private issuer, AerCap is exempted from Section 16 of the Exchange Act by Rule 3a12-3.

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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