

Venuto Joseph  
Form 4  
March 26, 2012

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**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).

**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

## OMB APPROVAL

OMB  
Number: 3235-0287  
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2005  
Estimated average  
burden hours per  
response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Venuto Joseph

(Last) (First) (Middle)

AERCAP  
HOUSE, STATIONSPLEIN 965

(Street)

SCHIPHOL AIRPORT, P7 1117CE

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol

AerCap Holdings N.V. [AER]

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

03/22/2012

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

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_ 10% Owner  
\_\_\_\_X\_\_\_\_ Officer (give title below) \_\_\_\_ Other (specify 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**

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)
			Code	V	Amount	(D)	Price

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

**Persons who respond to the collection of  
information contained in this form are not  
required to respond unless the form  
displays a currently valid OMB control  
number.**

SEC 1474  
(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	2. Conversion or Exercise	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transaction Code	5. Number of Derivative Securities	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount Underlying Security (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 Exercisable	Expiration Date	Title			Am or Num of S
Restricted Stock Unit	<u>(1)</u>	03/22/2012	J <sup>(2)</sup>		25,000		03/31/2015 <sup>(3)</sup>	03/31/2015 <sup>(3)</sup>	Ordinary Shares			25

## 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 03/26/2012

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) 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 equivalent, or (iii) into a combination of items (i) and (ii).
- (2) Grant of RSUs pursuant to AerCap Holdings N.V. 2006 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.
- (3) 12,500 RSUs will vest on March 31, 2016. The remaining 12,500 RSUs will vest on March 31, 2016 subject to performance goals.

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.