

Greene Niall
Form 3
June 18, 2010

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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 * | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| Â Greene Niall | | (Month/Day/Year) | AerCap Holdings N.V. [AER] | |
| (Last) | (First) | (Middle) | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| | | 05/27/2010 | | |
| AERCAP HOUSE, STATIONSPLEIN 965 | | | (Check all applicable) | |
| | (Street) | | <input checked="" type="checkbox"/> Director | <input type="checkbox"/> 10% Owner |
| | | | <input type="checkbox"/> Officer | <input type="checkbox"/> Other |
| | | | (give title below) | (specify below) |
| SCHIPHOL AIRPORT,Â P7Â 1117CE | | | 6. Individual or Joint/Group Filing(Check Applicable Line) | |
| (City) | (State) | (Zip) | <input checked="" type="checkbox"/> Form filed by One Reporting Person | |
| | | | <input type="checkbox"/> Form filed by More than One Reporting Person | |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|------------------------------------|--|---|--|
| Ordinary Shares | 2,609 | D | Â |

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

SEC 1473 (7-02)

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.

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

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) Title | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|---|---|--|---|--|
|---|---|---|--|---|--|

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| | | | |
|-------------|------------|-----------|-------------|
| Date | Expiration | Amount or | or Indirect |
| Exercisable | Date | Number of | (I) |
| | | Shares | (Instr. 5) |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Greene Niall AERCAP HOUSE, STATIONSPLEIN 965 SCHIPHOL AIRPORT, P7 1117CE | X | ^ | ^ | ^ |

Signatures

/s/ Niall Greene 06/18/2010
 **Signature of Date
 Reporting Person

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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).

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Remarks:

This Form is filed voluntarily. As a foreign private issuer, AerCap is exempted from Section 16 of the Securities Exchange Act of 1934.

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.