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

| OMB APPRO | VAL |
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| OMB Number: | 3235-0287 |
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| nours per response | 0.5 |

(Instr. 4)

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 or Section 30(h) of the

Investment Company Act of 1940

(Print or Type Responses) 2. Issuer Name and Ticker or Trading Symbol 5. Relationship of Reporting Person(s) to Issuer 1. Name and Address of Reporting Person * (Check all applicable) Helming Keith A AerCap Holdings N.V. [AER] 10% Owner 3. Date of Earliest Transaction (Month/Day/Year) Officer (give title below) Other (specify below) Chief Financial Officer AERCAP HOUSE, STATIONSPLEIN 965 02/16/2015 6. Individual or Joint/Group Filing(Check Applicable Line) 4. If Amendment, Date Original Filed(Month/Day/Year) Form filed by One Reporting Person
Form filed by More than One Reporting Person SCHIPHOL, P7 1117CE (City) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of Security 2. Transaction 2A. Deemed 3. Transaction 4. Securities Acquired 5. Amount of Securities Beneficially . Nature (Instr. 3) Date Execution Date, if Code (A) or Disposed of (D) Owned Following Reported Ownership of Indirect (Month/Day/Year (Instr. 8) (Instr. 3, 4 and 5) Transaction(s) Form: Beneficial (Month/Day/Year Direct (D) (Instr. 3 and 4) Ownership (Instr. 4) or Indirect (I) (A) or

| Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. Persons who respond to the collection of information SEC 1474 (9-contained in this form are not required to respond unless the form displays a currently valid OMB control number. | Ordinary Shares (1) | 02/17/2015 | | A | 26,217 | A | \$ 0 | 345,191 | D | | |
|---|---|--------------------------|-----------------------|---------------|--------------|---------|--------|-------------------|--------------------|-----|-----------|
| contained in this form are not required to respond unless the | Reminder: Report on a separate line for e | each class of securities | beneficially owned of | lirectly or i | ndirectly. | | | | | | |
| | | | | c | contained in | his for | rm are | not required to r | respond unless the | SEC | 474 (9-02 |

(D)

Amoun

Price

Code

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

| 1. Title of | 2. | Transaction | 3A. Deemed | 4. | | 5. N | umber | Date Exerc | isable and | 7. Title and | l | 8. Price of | 9. Number of | 10. | 11. Nature | |
|-------------|-------------|-------------------------------|--------------------|------------|-----|------|-----------|------------------------------|------------|--------------------|--------|-------------|----------------|-------------|-------------|--|
| Derivative | Conversion | Date | Execution Date, if | Transact | ion | of | | Expiration Da | ite | Amount of | • | Derivative | Derivative | Ownership | of Indirect | |
| Security | or Exercise | (Month/Day/Year) | any | Code | | Deri | vative | (Month/Day/Y | (ear) | Underlying | 5 | Security | Securities | Form of | Beneficial | |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | | Secu | ırities | | | Securities | | (Instr. 5) | | Derivative | | |
| | Derivative | | | | | Acq | uired | | | (Instr. 3 an | d 4) | | Owned | Security: | (Instr. 4) | |
| | Security | | | | | (A) | | | | | | | | Direct (D) | i | |
| | | | | | | - | osed of | | | | | | | or Indirect | i l | |
| | | | | | | (D) | | | | | | | Transaction(s) | | i | |
| | | | | | | | tr. 3, 4, | | | | | | (Instr. 4) | (Instr. 4) | i | |
| | | | | | | and | 5) | | | | | | | | i l | |
| | | | | | | | | | | | Amount | | | | i l | |
| | | | | | | | | Date | Expiration | | or | | | | i | |
| | | | | | | | | Exercisable | Date | Title | Number | | | | i l | |
| | | | | | | | | LACICISADIC | Date | | of | | | | i | |
| | | | | Code | V | (A) | (D) | | | | Shares | | | | | |
| Restricted | | | | | | | | | | 0 1: | | | | | | |
| Stock | <u>(2)</u> | 02/16/2015 | | С | | | 43 976 | 02/16/2015 | 02/16/2015 | Ordinary Shares | 43 976 | \$ 0 | 0 | D | i l | |
| Unit | | 02,10/2013 | | | | | 15,570 | 02/10/2013 | 02,10/2013 | Shares | 15,570 | ΨΟ | J | , | | |
| Omt | | | | | | | | | | | | | | | | |

Reporting Owners

| | Relationships | | | | | | | |
|---|---------------|-----------|-------------------------|-------|--|--|--|--|
| Reporting Owner Name / Address | Director | 10% Owner | Officer | Other | | | | |
| Helming Keith A AERCAP HOUSE, STATIONSPLEIN 965 SCHIPHOL, P7 1117CE | | | Chief Financial Officer | | | | | |

Signatures

| /s/ Keith A. Helming | 02/19/2015 |
|---------------------------------|------------|
| **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) This form is filed voluntarily. As a foreign private issuer, AerCap Holdings N.V. is exempted from Section 16 of the Exchange Act by Rule 3a12-3.
- (2) Each Restricted Stock Unit ("RSU") listed in Table II vested and converted into Ordinary Shares on a 1-to-1 basis. Some of the Ordinary Shares that were issued are being withheld by AerCap Holdings N.V. to pay wage taxes payable by K. Helming in connection with the vesting of the RSUs.

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.