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**FORM 6 - - K**  
**SECURITIES AND EXCHANGE COMMISSION**  
Washington, DC 20549

**Report of Foreign Private Issuer**  
**Pursuant to Rule 13a - 16 or 15d - 16 under**  
**the Securities Exchange Act of 1934**

For the month of July 2010

Commission File Number 001-33159

**AERCAP HOLDINGS N.V.**  
(Translation of Registrant's Name into English)

**Stationsplein 965, 1117 CE Schiphol Airport, The Netherlands, +31-20-655-9655**  
(Address of Principal Executive Office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F

Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Note: Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an attached annual report to security holders.

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Act of 1934.

Yes

No

If "Yes" is marked, indicated below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82 - N/A

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**Other Events**

On July 29, 2010, AerCap Holdings N.V. announced that it has signed debt facility agreements totaling \$108 million with KfW IPEX Bank and BNP Paribas.

**Exhibits**

99.1 AerCap Holdings N.V. Press Release

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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

AERCAP HOLDINGS N.V.

By: /s/ Klaus Heinemann  
Name: Klaus Heinemann  
Title: Authorized Signatory

**EXHIBIT INDEX**

99.1 AerCap Holdings N.V. Press Release.



PRESS RELEASE

### **AerCap Signs Debt Facilities for Total of \$108 Million**

Amsterdam, The Netherlands; July 29, 2010 — AerCap Holdings N.V. (“AerCap”, NYSE: AER) today announced that it has signed debt facility agreements totaling \$108 million. One of the facilities is for the financing of an Airbus A330-300 delivering in September 2010 and is provided by KfW IPEX Bank, and the other facility covers the refinancing of an Airbus A320-200 and is provided by BNP Paribas. Both facilities have a term of 10 years.

Including the new facilities, AerCap has now closed \$835 million of new debt in 2010 which brings the total amount of debt accessed by the company in slightly over two years to \$5.8 billion.

### **About AerCap Holdings N.V.**

AerCap is the world’s leading independent aircraft leasing company. AerCap also provides engine leasing, aircraft management services, aircraft maintenance, repair and overhaul services and aircraft disassemblies. AerCap is headquartered in The Netherlands and has offices in Ireland, the United States, China, Singapore and the United Kingdom.

**This press release may contain forward-looking statements that involve risks and uncertainties. In most cases, you can identify forward-looking statements by terminology such as “may”, “should”, “expects”, “plans”, “anticipates”, “believes”, “estimates”, “predicts”, “potential” or “continue” or the negative of such terms or similar terminology. Such forward-looking statements are not guarantees of future performance and involve significant assumptions, risks and uncertainties, and actual results may differ materially from those in the forward-looking statements.**

#### **Contact for Media:**

Frauke Oberdieck  
+31 20 655 9616  
foberdieck@aercap.com

#### **Contact for Investors:**

Peter Wortel  
+31 20 655 9658  
pwortel@aercap.com