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# SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

## FORM 6 - K

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

**For the month of October 2007**

**Commission File Number 001-33159**

### **AERCAP HOLDINGS N.V.**

(Translation of Registrant's Name into English)

**Evert van de Beekstraat 312, 1118 CX 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 October 3, 2007, AerCap Holdings, N.V. announced that it has closed the acquisition of a Boeing 737 New Generation ("NG"), which is the seventh Boeing 737 NG that AerCap has purchased over the last twelve months.

#### **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/ Cole Reese  
Name: Cole Reese  
Title: Authorized Signatory

By: /s/ Wouter M. (Erwin) den Dikken  
Name: Wouter M. (Erwin) den Dikken  
Title: Authorized Signatory

Date: October 3, 2007

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**EXHIBIT INDEX**

99.1 AerCap Holdings N.V. Press Release.

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## PRESS RELEASE

### FOR IMMEDIATE RELEASE

#### **AerCap Holdings N.V. Announces Acquisition of New Boeing 737 NG**

##### **Total of Seven Boeing 737 NG Acquired Over Last Twelve Months**

Amsterdam, The Netherlands; September 27, 2007 - AerCap Holdings N.V. ("AerCap," NYSE: AER) announced today that it has recently closed the acquisition of a Boeing 737 New Generation ("NG"), which was delivered new from the production line this month. This aircraft is the seventh Boeing 737 NG that AerCap has purchased in the last twelve months, expanding the share of modern Boeing aircraft in AerCap's already diverse portfolio.

Klaus Heinemann, Chief Executive Officer of AerCap, commented: "We were very pleased to be able to identify and execute attractive purchase opportunities for Boeing New Generation aircraft in a market environment characterized by great demand for this type of aircraft. With these transactions, we have expanded the Boeing portion of our portfolio through purchases from third parties at a time when delivery slots directly from the manufacturer are sold out for the remainder of the current decade."

The seven aircraft were purchased from four sellers and are subject to operating lease agreements with three airlines in Europe and the Americas.

#### **About AerCap**

AerCap is an integrated global aviation company with a leading market position in aircraft and engine leasing, trading and parts sales. AerCap also provides aircraft management services and performs aircraft and engine maintenance, repair and overhaul services and aircraft disassemblies through its certified repair stations. AerCap has a fleet of over 340 aircraft owned, managed or under contracted orders and a diversified commercial engine portfolio. AerCap is headquartered in The Netherlands and has offices in Ireland, the United States, China and the United Kingdom.

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**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.**

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