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Item 7.01 Regulation FD Disclosure

On September 16, 2005, Atlas Air Worldwide Holdings, Inc. issued the press release attached hereto as Exhibit 99.1 and incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits

Exhibit No. Description

| | |
|------|--------------------------------------------------------------------------------|
| 99.1 | Press release of Atlas Air Worldwide Holdings, Inc., dated September 16, 2005. |
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SIGNATURES

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 hereunto duly authorized.

Atlas Air Worldwide Holdings, Inc.

Dated: September 16,
2005

By: /s/ Michael W. Borkowski

Name: Michael W. Borkowski
Title: Secretary and Senior Attorney

EXHIBIT INDEX

99.1 Press release of Atlas Air Worldwide Holdings, Inc., dated September 16, 2005.