

ATLAS AIR WORLDWIDE HOLDINGS INC

Form S-3

June 05, 2009

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As filed with the Securities and Exchange Commission on June 4, 2009

Registration No. 333-

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

**Form S-3
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933**

Atlas Air Worldwide Holdings, Inc.

(Exact name of registrant as specified in its charter)

Delaware

*(State or other jurisdiction of incorporation or
organization)*

13-4146982

(I.R.S. Employer Identification No.)

**2000 Westchester Avenue
Purchase, New York 10577
(914) 701-8000**

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

**Adam R. Kokas, Esq.
Senior Vice President, General Counsel & Secretary
Atlas Air Worldwide Holdings, Inc.
2000 Westchester Avenue
Purchase, New York 10577-2543
Telephone: (914) 701-8000**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies of all communications, including communications sent to agent for service, should be sent to:

**David A. Fine, Esq.
Ropes & Gray LLP
One International Place
Boston, MA 02110-2624
Telephone: (617) 951-7473**

Approximate date of commencement of proposed sale to the public: From time to time after this Registration Statement becomes effective.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box:

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box:

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Securities and Exchange Commission pursuant to Rule 462(e) under the Securities Act, check the following box:

If this form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box:

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company
 accelerated filer (Do not check if a smaller reporting company)

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered(1)	Proposed Maximum Aggregate Offering Price(1)(2)	Amount of Registration Fee
Debt Securities			
Preferred stock, par value \$1 per share(3)			
Common stock, par value \$0.01 per share(3)(4)			
Total	\$500,000,000	\$500,000,000(5)	\$27,900(6)

(1) If any debt securities are issued with an original issue discount, then the offering price of those debt securities shall be an amount that will result in an aggregate initial offering price not to exceed \$500,000,000, less the dollar amount of any registered securities previously issued.

(2) Estimated solely for purposes of calculating the registration fee pursuant to Rule 457(o). In no event will the aggregate initial offering price of all securities offered from time to time pursuant to the prospectus included as part of this Registration Statement exceed \$500,000,000 or if any securities are issued in any foreign currency units, the U.S. dollar equivalents of \$500,000,000.

(3) Also includes an indeterminate number of shares of preferred stock or common stock as may be issued upon conversion of or in exchange for convertible or exchangeable debt securities or preferred stock. No separate consideration will be received for any shares of preferred stock or common stock so issued upon conversion or exchange.

(4) Includes associated rights to purchase shares of common stock, which purchase rights are not currently separable from the shares of common stock and are not currently exercisable. The value, if any, attributable to the purchase rights to be offered is included in the proposed offering price of the common stock.

- (5) The proposed maximum aggregate offering price for each class of securities to be registered is not specified pursuant to General Instruction II.D. of Form S-3.
- (6) Calculated in accordance with Rule 457(o).

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment that specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until this Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

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The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED JUNE 4, 2009

PROSPECTUS

\$500,000,000

**Debt Securities
Preferred Stock
Common Stock**

Atlas Air Worldwide Holdings, Inc. may, from time to time, offer and sell in one or more offerings:

Unsecured debt securities consisting of senior or subordinated notes and debentures and/or other unsecured evidences of indebtedness in one or more series, which may be convertible or exchangeable for our common stock or preferred stock;

Shares of preferred stock, in one or more series, which may be convertible or exchangeable for our common stock or debt securities; and

Shares of our common stock;

together or separately, in amounts, at prices and on terms that we will determine at the time of such offering. The specific terms of any of the securities we offer will be provided in one or more supplements to this prospectus.

We may offer and sell the securities through one or more underwriters, dealers and agents, or directly to purchasers, on a continuous or delayed basis. The prospectus supplement for each offering will describe in detail the plan of distribution for that offering and will set forth the names of any underwriters, dealers and agents involved in the offering and any applicable fees, commissions or discount arrangements.

Our common stock is listed on The NASDAQ Global Select Market under the ticker symbol AAWW. Each prospectus supplement will indicate if the securities offered thereby will be listed on any securities exchange.

You should read this entire prospectus, the documents that are incorporated by reference into this prospectus and any applicable prospectus supplement carefully before you invest in our securities. This prospectus may not be used to sell securities unless accompanied by a prospectus supplement.

Investing in our securities involves certain risks. Please read **Risk Factors on page 3 and other information included and incorporated by reference in this prospectus for a discussion of the factors that you should carefully consider before deciding to purchase our securities.**

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation

to the contrary is a criminal offense.

The date of this prospectus is _____, 2009.

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ABOUT THIS PROSPECTUS

This prospectus is part of a Registration Statement that we filed with the Securities and Exchange Commission, or SEC, utilizing a shelf registration process. Under this shelf process, we may sell different types of securities described in this prospectus in one or more offerings. This prospectus provides you with a general description of the securities we may offer. Each time we offer securities, we will provide a prospectus supplement and attach it to this prospectus. The prospectus supplement will contain specific information about the nature of the persons offering securities and the terms of the securities being offered at that time. The prospectus supplement may also add, update or change information contained in this prospectus. You should read both this prospectus and any prospectus supplement, together with additional information under the headings *Where You Can Find More Information* and *Incorporation of Certain Information By Reference* and any other information that you may need to make your investment decision.

This prospectus does not contain all of the information that is in the Registration Statement. We omitted certain parts of the Registration Statement from this prospectus as permitted by the SEC. We refer you to the Registration Statement and its exhibits for additional information about us and the securities that may be sold under this prospectus.

You should rely only on the information contained or incorporated by reference in this prospectus or any applicable prospectus supplement. We have not authorized anyone to provide you with different or additional information. This prospectus may only be used where it is legal to sell these securities. You should not assume that the information contained in this prospectus, any applicable prospectus supplement or the documents incorporated by reference into this prospectus is accurate as of any date other than their respective dates. Our business, financial condition, results of operations and prospects may have changed since those dates.

This prospectus does not constitute an offer to sell or a solicitation of an offer to buy any security other than the securities covered by this prospectus, nor does it constitute an offer to or solicitation of any person in any jurisdiction in which such offer or solicitation may not lawfully be made.

In this prospectus, references to the company, AAWW, we, us and our are to Atlas Air Worldwide Holdings, Inc., a Delaware corporation, and its operating subsidiaries, unless the context requires otherwise.

OUR COMPANY

We are the leading provider of leased wide-body freighter aircraft, furnishing outsourced air cargo operating services and solutions to the global air freight industry. As such, we manage and operate the world's largest fleet of 747 freighters. We provide unique value to our customers by giving them access to highly reliable new production freighters that deliver the lowest unit cost in the marketplace combined with outsourced aircraft operating services that lead the industry in terms of quality and global scale. Our customers include airlines, express delivery providers, freight forwarders, the U.S. military and charter brokers. We provide global services with operations in Asia, the Middle East, Australia, Europe, South America, Africa and North America.

We believe that the scale, scope and quality of our outsourced services are unparalleled in our industry. The relative operating cost efficiency of our current 747-400F aircraft and future 747-8F aircraft, including their superior fuel efficiency, capacity and loading capabilities, create a compelling value proposition for our customers.

Atlas Air Worldwide Holdings, Inc. is a holding company with a principal, wholly-owned, operating subsidiary, Atlas Air, Inc. (Atlas Air). We also have a 51% economic interest and 75% voting interest in Polar Air Cargo Worldwide,

Inc. (Polar), which, since October 27, 2008, is accounted for under the equity method. On June 28, 2007, Polar issued shares representing a 49% economic interest and a 25% voting interest to DHL Network Operations (USA), Inc. (DHL), a subsidiary of Deutsche Post AG (DP). In February 2008, we formed Titan Aviation Leasing Limited (Titan) a wholly owned subsidiary based in Ireland, for the purpose of dry leasing aircraft and engines.

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Our primary service offerings are:

Freighter aircraft leasing services, which encompass the following:

We provide outsourced operating solutions including the provision of crew, maintenance and insurance for the aircraft (hereinafter referred to as ACMI), while customers assume fuel, demand and yield risk. ACMI contracts typically range from three to six year periods for 747-400s and shorter periods for 747-200s. Included in ACMI is the provision of outsourced airport-to-airport wide-body cargo aircraft solutions to Polar for the benefit of DHL and other customers, which we refer to as Express Network ACMI services. Through this arrangement, we provide dedicated 747-400 aircraft servicing the requirements of DHL 's global express operations through Polar as well as the requirements of Polar 's other customers;

Dry leasing, whereby we provide aircraft and engine leasing solutions to third parties for one or more dedicated aircraft. We provide dry leasing services primarily to Global Supply Systems, a private company in which we own a 49% interest. We have also provided dry leasing services to other third party customers through both Atlas Air and our newly formed leasing subsidiary, Titan.

Charter services, which encompass the following:

Military charter services, whereby we provide air cargo services for the U.S. Air Mobility Command;

Commercial charters, whereby we provide all-inclusive cargo aircraft charters to brokers, freight forwarders, direct shippers and airlines. In addition, we have been providing airport-to-airport air cargo services to freight forwarders and other shipping customers in limited markets since October 2008.

AAWW was incorporated in Delaware in 2000. Our principal executive offices are located at 2000 Westchester Avenue, Purchase, New York 10577, and our telephone number is (914) 701-8000.

Our website is www.atlasair.com. The information on our website is not a part of this prospectus.

Atlas and Polar hold various trademark registrations and have applications for additional registrations pending in several foreign jurisdictions. This prospectus and the documents incorporated herein by reference also include trademarks, trade names and service marks of other companies. Use or display by us of other parties ' trademarks, trade names or service marks is not intended to and does not imply a relationship with, or endorsement or sponsorship of us by, these other parties.

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RISK FACTORS

Investing in our securities involves risk. You should carefully consider and evaluate all of the information included and incorporated by reference in this prospectus and any applicable prospectus supplement, including the risk factors incorporated by reference from our most recent Annual Report on Form 10-K for the fiscal year ended December 31, 2008, filed with the SEC on February 26, 2009, as updated by our Quarterly Reports on Form 10-Q and our other filings with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act filed after such annual report. The risk factors we have described are not the only ones we face. Our operations could also be impaired by additional risks and uncertainties. If any of these risks and uncertainties develop into actual events, our business, financial condition and results of operations could be materially and adversely affected. Additional risks may be included in a prospectus supplement relating to a particular series or offering of securities.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

We make forward-looking statements in this prospectus that are subject to risks and uncertainties. These forward-looking statements include information about possible or assumed future results of our business, financial condition, liquidity, results of operations, plans and objectives. The words may, should, expect, anticipate, intend, plan, continue, believe, seek, project, estimate and similar expressions used in this prospectus or incorporated into this prospectus by reference that do not relate to historical facts are intended to identify forward-looking statements. These statements are only predictions. You should not place undue reliance on these forward-looking statements. By way of example, statements regarding the following subjects are forward-looking by their nature:

our business strategy;

our future operating results;

our ability to obtain external financing;

our understanding of our competition;

industry and market trends;

future capital expenditures; and

the impact of technology on our products, operations and business.

The forward-looking statements are based on management's beliefs, plans, expectations and assumptions and on information available to us as of the time such statements were made. These beliefs, plans, expectations and assumptions can change as a result of many possible events or factors, not all of which are known to us. Neither we nor any other person assumes responsibility for the accuracy or completeness of these statements. If a change occurs, our business, financial condition, liquidity and results of operations may vary materially from those expressed in our forward-looking statements.

The forward-looking statements in this prospectus or incorporated into this prospectus by reference are not representations or guarantees of future performance and involve certain risks, uncertainties and assumptions. Such risks, uncertainties and assumptions include, but are not limited to, any risk factors set forth in our other filings with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act or in any supplement to this prospectus.

Many of such factors are beyond our control and are difficult to predict. As a result, our future actions, financial position and results of operations could differ materially from those expressed in any forward-looking statements made by us. Readers are therefore cautioned not to place undue reliance on forward-looking statements. We also do not intend to publicly update any forward-looking statements that may be made from time to time by us or on our behalf, whether as a result of new information, future events or otherwise.

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Unless otherwise set forth in an applicable prospectus supplement, we intend to use the net proceeds from any offering of securities by us for general corporate purposes. Any specific allocation of the net proceeds of an offering of securities to a specific purpose will be determined at the time of the offering and will be described in a prospectus supplement.

RATIO OF EARNINGS TO FIXED CHARGES

Our consolidated ratio of earnings to fixed charges for each of the periods indicated are as follows:

	For the Quarter Ended		For the Years Ended			For the Periods	
	March 31, 2009	December 31, 2008	December 31, 2007	December 31, 2006	December 31, 2005	July 28, 2004 to December 31, 2004	January 1, 2004 to July 27, 2004
Ratio of Earnings to Fixed Charges	2.5	2.0	2.3	1.9	2.0	1.8	1.5

For purposes of the ratio of earnings to fixed charges, earnings consist of income before income taxes, interest and the portions of rentals representative of the interest factor. Fixed charges consist of interest expense, capitalized interest and the portions of rentals representative of the interest factor.

RATIO OF EARNINGS TO FIXED CHARGES AND PREFERRED STOCK DIVIDENDS

Our consolidated ratio of earnings to fixed charges and preferred stock dividends for each of the periods indicated are as follows:

	For the Quarter Ended		For the Years Ended			For the Periods	
	March 31, 2009	December 31, 2008	December 31, 2007	December 31, 2006	December 31, 2005	July 28, 2004 to December 31, 2004	January 1, 2004 to July 27, 2004
Ratio of Earnings to Fixed Charges and Preferred Stock Dividends	2.5	2.0	2.3	1.9	2.0	1.8	1.5

For purposes of the ratio of earnings to fixed charges and preferred stock dividends, earnings consist of income before income taxes, interest and the portions of rentals representative of the interest factor. Fixed charges consist of interest expense, capitalized interest and the portions of rentals representative of the interest factor.

We have the authority to issue up to 10,000,000 shares of preferred stock, par value \$1.00 per share; however, as of the dates for which information is presented in the above table, no shares were outstanding, and we did not have a preferred stock dividend obligation. Therefore, the ratio of earnings to fixed charges and preferred stock dividends is equal to the ratio of earnings to fixed charges.

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DESCRIPTION OF THE DEBT SECURITIES

The following description sets forth certain material terms and provisions of the debt securities to which any prospectus supplement may relate. The specific terms applicable to a particular issuance of debt securities and any variations from the terms set forth below will be set forth in the applicable prospectus supplement. The debt securities will constitute either our senior debt securities or our subordinated debt securities.

Senior debt securities will be issued under an indenture (the "senior indenture") to be entered into between us and a trustee (the "senior trustee") to be designated prior to the issuance of any such senior debt securities, the form of which senior indenture is filed as an exhibit to the Registration Statement. Subordinated debt securities will be issued under a separate indenture (the "subordinated indenture") to be entered into between us and a trustee (the "subordinated trustee") to be designated prior to the issuance of any such subordinated debt securities, the form of which subordinated indenture is also filed as an exhibit to the Registration Statement. The senior indenture and the subordinated indenture are sometimes collectively referred to herein as the "indentures," the senior debt securities and the subordinated debt securities are sometimes collectively referred to herein as the "debt securities," and the senior trustee and the subordinated trustee sometimes collectively referred to herein as the "trustees" and individually as the "trustee." We and the respective trustee may enter into supplements to the indentures from time to time.

The following is a summary of the material terms and provisions of the indentures and the debt securities. You should refer to the respective indenture and the applicable prospectus supplement for complete information regarding the terms and provisions of the respective indenture and the debt securities.

General

Neither indenture limits the amount of debt securities that we may issue. The senior debt securities will be our senior unsecured obligations and will rank equal in right of payment to all of our other existing and future indebtedness and other liabilities that are not, by their terms, expressly subordinated in the right of payment to the senior debt securities. The subordinated debt securities will be unsecured obligations and subordinated in right of payment to all of our existing and future senior indebtedness, in the manner and to the extent described below under "Subordination of Subordinated Debt Securities."

The debt securities may be issued in one or more separate series of senior debt securities or subordinated debt securities. A prospectus supplement relating to any series of debt securities being offered will include specific terms relating to the offered debt securities. These terms will include some or all of the following:

the title and type of the debt securities;

any limit on the amount(s) that may be issued;

the person to whom any interest on the debt securities shall be payable if other than the registered holder;

the maturity date(s) or the method by which this date or these dates will be determined;

the interest rate, if any, or the method of computing the interest rate;

the date or dates from which interest will accrue, or how this date or these dates will be determined, and the interest payment date or dates, if any, and any related record dates;

the place(s) where payments, if any, will be made on the debt securities and the place(s) where debt securities may be presented for transfer or exchange;

the period or periods within which, the price or prices at which and the terms and conditions on which we may redeem, or be required to redeem, the debt securities;

any provisions relating to the convertibility or exchangeability of the debt securities for other debt securities or equity securities;

any mandatory or optional sinking fund or similar provisions;

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if other than denominations of \$1,000 and integral multiples thereof, the denominations in which any debt securities shall be issuable;

if other than the principal amount, the portion of the principal amount, or the method by which the portion will be determined, of the debt securities that will be payable upon declaration of acceleration of the maturity of the debt securities;

if other than United States dollars, the foreign currency or units of two or more foreign currencies in which payment of the principal of (and premium, if any) or interest on the debt securities shall be payable;

if the principal of (and premium, if any) or interest on the debt securities is payable, at our election or election of the holders, in a foreign currency or units of two or more foreign currencies other than that in which the debt securities are stated to be payable, the period or periods within which, and the terms and conditions, upon which, such election may be made;

any index used to determine the amount of payment of principal of (and premium, if any) or interest on the debt securities;

whether the debt securities will be subject to defeasance in advance of the date for redemption or the stated maturity date;

whether the debt securities will be issued in the form of one or more global securities and, if so, the identity of the depository for the global security or securities;

any additional or different events of default and any change in the right of the trustee or the holders to declare principal due and payable;

in the case of an issue of subordinated debt securities, the subordination provisions, if different from those described under **Subordination of Subordinated Debt Securities** below;

any additional or different covenants;

the form of debt securities; and

any other terms of the debt securities.

We will have the ability under the indentures to **reopen** a previously issued series of debt securities and issue additional debt securities of that series or establish additional terms of that series.

Unless otherwise indicated in the applicable prospectus supplement, the covenants contained in the indentures may not protect holders of the debt securities in the event of a highly leveraged or other transaction involving us or our subsidiaries that may adversely affect the holders of the debt securities.

Debt securities may be issued under the indentures as original issue discount securities. An original issue discount security is a security, including any zero-coupon security, which:

is issued at a price lower than the amount payable upon its stated maturity and

provides that upon redemption or acceleration of the maturity, an amount less than the amount payable upon the stated maturity, shall become due and payable.

If a series of debt securities is issued as original issue discount securities, the special U.S. federal income tax, accounting and other considerations applicable to original issue discount securities will be discussed in the applicable prospectus supplement.

Holding Company Status. The debt securities are obligations exclusively of Atlas Air Worldwide Holdings, Inc., which, as a holding company, has no material assets other than its ownership of the common stock of its subsidiaries. We will rely entirely upon distributions from our subsidiaries to meet the payment obligations under the debt securities. Our subsidiaries are separate and distinct legal entities and have no obligation, contingent or otherwise, to pay amounts due under the debt securities or otherwise to make any funds available to us including the payment of dividends or other distributions or the extension of loans or

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advances. Furthermore, the ability of our subsidiaries to make any payments to us would be dependent upon the terms of any credit facilities or other agreements of the subsidiaries and upon the subsidiaries' earnings, which are subject to various business risks. In a bankruptcy or insolvency proceeding, claims of holders of the debt securities would be satisfied solely from our equity interests in our subsidiaries remaining after the satisfaction of claims of creditors of the subsidiaries. Accordingly, the debt securities are effectively subordinated to existing and future liabilities of our subsidiaries to their respective creditors. The debt securities also are effectively subordinated to any secured debt that we incur to the extent of the value of the assets securing that indebtedness.

Form, Exchange and Transfer

The debt securities will be issuable as registered securities. The ownership or transfer of debt securities will be listed in the security register described in the applicable indenture.

The indentures provide that debt securities may be issuable in global form which will be deposited with, or on behalf of, a depository, identified in an applicable prospectus supplement. If debt securities are issued in global form, one certificate will represent a large number of outstanding debt securities which may be held by separate persons, rather than each debt security being represented by a separate certificate.

If the purchase price, or the principal of, or any premium or interest on any debt securities is payable in, or if any debt securities are denominated in, one or more foreign currencies, the restrictions, elections, U.S. federal income tax considerations, specific terms and other information will be set forth in the applicable prospectus supplement.

Unless otherwise specified in the applicable prospectus supplement, debt securities denominated in U.S. dollars will be issued only in denominations of \$1,000 and integral multiples thereof.

Debt securities may be presented for registration of transfer with the applicable form of transfer duly executed, at the office of the Security Registrar, as defined in the applicable indenture, without service charge and upon payments of any taxes and other governmental charges as described in the applicable indenture. This registration of transfer or exchange will be effected upon the Security Registrar being satisfied with the documents of title and identity of the person making the request.

A debt security in global form may not be transferred except as a whole by or between the depository for the debt security and any of its nominees or successors. If any debt security of a series is issuable in global form, the applicable prospectus supplement will describe:

any circumstances under which beneficial owners of interests in that global debt security may exchange their interests for definitive debt securities of that series of like tenor and principal amount in any authorized form and denomination,

the manner of payment of principal, premium and interest, if any, on that global debt security, and

the specific terms of the depository arrangement with respect to that global debt security.

Payment and Paying Agents

Unless otherwise specified in an applicable prospectus supplement, we will pay principal, any premium and interest on debt securities at the office of the paying agents we have designated, except that we may pay interest by check mailed to, or wire transfer to the account of, the holder. Unless otherwise specified in any applicable prospectus supplement, payment of any installment of interest on debt securities will be made to the person in whose name the

debt security is registered at the close of business on the record date for this interest payment.

The paying agents outside the United States initially appointed by us for a series of debt securities will be named in the applicable prospectus supplement. In addition, we will be required to maintain at least one paying agent in each place of payment for the series.

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Consolidation, Merger or Conveyance

We have the ability to merge or consolidate with, or convey, transfer or lease all or substantially all of our property, to another corporation, provided that:

in the case we consolidate with or merge into another corporation or convey, transfer or lease our properties and assets substantially as an entirety to any person, the corporation formed by such consolidation or into which we are merged or the person which acquires by conveyance or transfer, or which leases, our properties and assets substantially as an entirety is a corporation organized and existing under the laws of the United States of America, any State thereof or the District of Columbia and expressly assumes, by a supplemental indenture, executed and delivered to the trustee, in form reasonably satisfactory to the trustee, the due and punctual payment of the principal of (and premium, if any) and interest on all the securities and the performance and observance of every covenant in the indenture on the part of us to be performed or observed;

immediately after giving effect to such transaction and treating any indebtedness which becomes an obligation of ours or a subsidiary as a result of such transaction as having been incurred by us or such subsidiary at the time of such transaction, no event of default, and no event which, after notice or lapse of time or both, would become an event of default, has happened and is continuing; and

we have delivered to the applicable trustee an officers' certificate and an opinion of counsel, each stating that such consolidation, merger, conveyance, transfer or lease and, if a supplemental indenture is required in connection with such transaction, such supplemental indenture complies with all requirements of the applicable indenture and that all conditions precedent to the transaction have been complied with.

Events of Default

The following are events of default with respect to any series of debt securities issued:

default in the payment of any interest upon any security of that series when it becomes due and payable, and continuance of such default for a period of 30 days;

default in the payment of the principal of (or premium, if any, on) any security of that series at its maturity;

default in the deposit of any sinking fund payment, when and as due by the terms of a security of that series;

default in the performance, or breach, of any covenant or warranty in the indenture (other than a covenant or warranty a default in whose performance or whose breach is elsewhere in the indenture specifically dealt with or which has expressly been included in the indenture solely for the benefit of a series of securities other than the series in respect of which the event of default is being determined), and continuance of such default or breach for a period of 60 days after there has been given a written notice, by registered or certified mail, to us by the trustee or to us and the trustee by the holders of at least 25% in principal amount of the outstanding securities of that series, specifying such default or breach and requiring it to be remedied;

a default under any bond, debenture, note or other evidence of or agreement for indebtedness by us (including a default with respect to securities of any series other than that series) or under any mortgage, indenture or instrument under which there may be issued or by which there may be secured or evidenced any indebtedness for money borrowed by us (including the indenture), whether such indebtedness exists now or is created in the future, which default results in such indebtedness in an aggregate principal amount of \$25,000,000 or more becoming or being declared due and payable prior to the date on which it would otherwise have become due

and payable, without such acceleration having been rescinded or annulled, within a period of 10 days after there has been given a written notice, by registered or certified mail, to us by the trustee or to us and the trustee by the holders of at

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least 25% in principal amount of the outstanding securities of that series, specifying such default and requiring us to cause such acceleration to be rescinded or annulled;

specified events of bankruptcy, insolvency or reorganization; or

any other events of default provided with respect to debt securities of that series.

If an event of default occurs and is continuing, the trustee or the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series may declare each debt security of that series due and payable immediately by a notice in writing to us, and to the applicable trustee if given by holders. If an event of default occurs because of specified events in bankruptcy, insolvency or reorganization, the principal amount of each series of debt securities will be automatically accelerated, without any action by the trustee or any holder thereof.

A holder of the debt securities of any series will only have the right to institute a proceeding under the applicable indenture or to seek other remedies if:

the holder has given written notice to the applicable trustee of a continuing event of default;

the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series have made written request;

these holders have offered indemnity reasonably satisfactory to the applicable trustee to institute proceedings as trustee;

the applicable trustee does not institute a proceeding within 60 days; and

the applicable trustee has not received written directions inconsistent with the request from the holders of a majority of the principal amount of the outstanding debt securities of that series during that 60 day period.

We will annually file statements with the applicable trustee regarding our compliance with the covenants in the applicable indenture. The applicable trustee will generally give the holders of debt securities notice within 90 days of the occurrence of an event of default known to such trustee.

Subordination of Subordinated Debt Securities

The indebtedness evidenced by the subordinated debt securities will be subordinated and junior in right of payment to the extent set forth in the subordinated indenture to the prior payment in full of amounts then due on all Senior Indebtedness (as defined below). No payment shall be made on the subordinated debt securities, including by way of redemption, purchase, or in any other manner, if the subordinated trustee shall have received notice from us or any Senior Lender (as defined below), that (i) there exists a default which shall be continuing in the payment of principal of, or premium, if any, or interest on any Senior Indebtedness, beyond any applicable grace period with respect thereto, or (ii) there exists a default (other than a default specified in clause (i) above) with respect to any Senior Indebtedness which shall be continuing; provided, however, that no notice given with respect to one or more defaults of the type specified in clause (ii) shall suspend for longer than 179 days from the date of such notice any payment on subordinated debt securities that has become due, and only one such notice may be given during any 360-day period.

Upon any distribution of our assets or any liquidation, dissolution or other winding-up of AAWW whether voluntary or involuntary, or in bankruptcy or insolvency, all principal of, premium, if any, and interest due upon all Senior Indebtedness must be paid in full before the holders of the subordinated debt securities or the subordinated trustee are

entitled to receive or retain any assets so distributed in respect of the subordinated debt securities. By reason of this provision, in the event of insolvency, holders of the subordinated debt securities may recover less, ratably, than our other creditors, including holders of Senior Indebtedness.

Subject to payment in full of all our Senior Indebtedness, the rights of holders of the subordinated debt securities will be subrogated to the rights of holders of Senior Indebtedness to receive payments or distributions of our cash, property or securities applicable to Senior Indebtedness.

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Senior Indebtedness means all of the Company's obligations, whether presently existing or from time to time hereafter incurred, created, assumed or existing, to pay principal, premium, interest, penalties, fees and any other payment in respect of any of the following: (a) all obligations of the Company for borrowed money, including without limitation, such obligations as are evidenced by credit agreements, notes, debentures, bonds or other securities or instruments, (b) all Capital Lease Obligations, Synthetic Lease Obligations and finance lease obligations of the Company, (c) all obligations of the Company for reimbursement on any letter of credit, banker's acceptance, security purchase facility or similar credit facility, (d) all obligations of the Company issued or assumed as the deferred purchase price of property or services, (e) all payment obligations of the Company under interest rate swap or similar agreements or foreign currency hedge, exchange or similar agreements at the time of determination, including any such obligations of the Company incurred solely to act as a hedge against increases in interest rates that may occur under the terms of other outstanding variable or floating rate indebtedness of the Company, (f) all obligations of the types referred to in paragraphs (a) through (e) above of another Person which the Company has assumed, endorsed, guaranteed, contingently agreed to purchase or provide funds for the payment of, or otherwise become liable for, under any agreement, and (g) all amendments, renewals, extensions, modifications, refinancings, replacements or refundings by the Company of any such Senior Indebtedness referred to in paragraphs (a) through (f) above (and of any such amended, renewed, extended, modified, refinanced, replaced or refunded Senior Indebtedness; provided, however, that the following shall not constitute Senior Indebtedness: any obligation, amendment, renewal, extension, modification, refinancing, replacement or refunding that by the terms of the instrument creating or evidencing it or the assumption or guarantee of it provides that (i) it is not superior in right of payment to the Securities or (ii) such obligation or indebtedness is subordinated to Senior Indebtedness to substantially the same extent as the Securities are subordinated to Senior Indebtedness.

Capitalized Lease Obligations means with respect to any Person any obligation which is required to be classified and accounted for as a capital lease on the face of a balance sheet of such Person prepared in accordance with generally accepted accounting principles; the amount of such obligation shall be the capitalized amount thereof, determined in accordance with generally accepted accounting principles; and the Stated Maturity thereof shall be the date of the last payment of rent or any other amount due under such lease prior to the first date upon which such lease may be terminated by the lessee without payment of a penalty.

Senior Lender means any holder of Senior Indebtedness.

Synthetic Lease Obligation means any synthetic lease, tax retention operating lease, off-balance sheet loan or similar off-balance sheet financing arrangement whereby the arrangement is considered borrowed money indebtedness for tax purposes but is classified as an operating lease or does not otherwise appear on a balance sheet under generally accepted accounting principles.

The subordinated indenture places no limitation on the amount of additional Senior Indebtedness that may be incurred by us. We expect from time to time to incur additional indebtedness constituting Senior Indebtedness. As of March 31, 2009, the amount of our Senior Indebtedness was approximately \$654.7 million, including the impact of unamortized discount.

Waiver, Modifications and Amendment

The holders of a majority of the principal amount of the outstanding debt securities of any particular series may, on behalf of the holders of all debt securities of the series, waive past defaults with respect to that particular series, except for:

the payment of the principal of (or premium, if any) or interest on any security of such series; or

defaults relating to any covenants of the applicable indenture which cannot be changed without the consent of each holder of a debt security affected by the change.

The holders of a majority in aggregate principal amount of the outstanding debt securities of each series affected may, on behalf of the holders of all debt securities of the series, waive our compliance with some of the restrictive provisions of the applicable indenture.

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We and each trustee may amend the applicable indenture with the consent of the holders of a majority of the principal amount of the outstanding debt securities of each series issued under such indenture that is affected. However, without the consent of each affected holder, such changes shall not include the following with respect to debt securities held by a non-consenting holder:

change the stated maturity of, the principal of, or any installment of principal of or interest on, any security, or reduce the principal amount, the rate of interest or any premium payable upon the redemption, or reduce the amount of the principal of an original issue discount security due and payable upon a declaration of acceleration of maturity, or change any place of payment where, or the coin or currency in which, any security or any premium or the interest is payable, or impair the right to institute suit for the enforcement of any payment on or after the stated maturity (or, in the case of redemption, on or after the redemption date);

reduce the percentage in principal amount of the outstanding securities of any series, the consent of whose holders is required for any such supplemental indenture, or the consent of whose holders is required for any waiver of compliance with certain provisions of the applicable indenture or certain defaults provided for in the indenture; or

modifying any of the above requirements or the ability to waive certain covenants, except to increase any percentage or to provide that certain other provisions of the applicable indenture cannot be modified or waived without the consent of the holder of each outstanding security affected.

For purposes of computing the required consents referred to above, the aggregate principal amount of any outstanding debt securities not payable in U.S. dollars is the amount of U.S. dollars that could be obtained for this principal amount based on the market rate of exchange for the applicable foreign currency or currency unit as determined by the applicable trustee.

Defeasance and Covenant Defeasance

Unless otherwise specified in the applicable prospectus supplement, subject to certain conditions, we may elect either:

defeasance, whereby we are discharged from any and all obligations with respect to the debt securities, except as may be otherwise provided in the applicable indenture; or

covenant defeasance, whereby we are released from our obligations with respect to certain covenants.

We may do so by depositing with the trustee money, and/or certain government securities which through the payment of principal and interest in accordance with their terms will provide money in an amount sufficient to pay the principal and any premium and interest on the debt securities, and any mandatory sinking fund or analogous payments on their scheduled due dates. This type of a trust may only be established if, among other things, we have delivered to the applicable trustee an opinion of counsel meeting the requirements set forth in the applicable indenture.

Governing Law

The indentures and the debt securities will be governed by, and construed in accordance with, the laws of the State of New York.

Information Concerning the Trustees

The indentures contain certain limitations on the right of the trustees, should they become a creditor of the Company, to obtain payment of claims in certain cases, or to realize for their own account on certain property received in respect of any such claim as security or otherwise. We may, from time to time, borrow from or maintain deposit accounts and conduct other banking transactions with the trustees or their respective affiliates in the ordinary course of business.

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DESCRIPTION OF CAPITAL STOCK

The following description sets forth certain general terms and provisions of the common stock and preferred stock to which any prospectus supplement may relate.

The following description summarizes important terms of our capital stock. Because it is only a summary, it does not contain all the information that may be important to you. This description is in all respects subject to and qualified in its entirety by reference to: (i) our certificate of incorporation and our amended and restated bylaws, which are filed as exhibits to our Current Reports on Form 8-K dated February 16, 2001 (filed with the SEC on February 21, 2001) and June 27, 2006 (filed with the SEC on July 3, 2006), respectively, (ii) the certificate of designation relating to each series of preferred stock, which will be filed with the SEC in connection with an offering of such series of preferred stock, (iii) the rights agreement with Mellon Investor Services LLC relating to our stockholder rights plan, which is filed as an exhibit to our Current Report on Form 8-K dated May 26, 2009 (filed with the SEC on May 27, 2009) and (iv) the relevant portions of the Delaware General Corporation Law.

Our authorized capital stock consists of 50,000,000 shares of common stock, \$0.01 par value, and 10,000,000 shares of preferred stock, \$1.00 par value.

Common Stock

General. As of March 31, 2009, there were 21,079,643 shares of common stock outstanding, excluding 886,436 shares held in treasury. There were 80 stockholders of record of our common stock on such date.

Voting Rights. The holders of our common stock are entitled to one vote for each share held of record on all matters submitted to a vote of the stockholders, including the election of directors, and they do not have cumulative voting rights. Accordingly, the holders of a majority of the shares of common stock entitled to vote in any election of directors can elect all of the directors standing for election, if they so choose. Foreign Ownership Restrictions below contains a description of certain restrictions on voting by stockholders who are not U.S. citizens, as defined by applicable laws and regulations. Please see Foreign Ownership Restrictions for additional information on the foreign ownership restrictions applicable to the ownership of our shares by non-U.S. citizens.

Dividends. Subject to preferences that may be applicable to any then outstanding preferred stock, holders of our common stock are entitled to receive ratably those dividends, if any, as may be declared by the board of directors out of legally available funds.

Liquidation, Dissolution and Winding Up. Upon our liquidation, dissolution or winding up, the holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities, subject to the prior rights of any preferred stock then outstanding.

Preemptive Rights. Holders of our common stock have no preemptive or conversion rights or other subscription rights and there are no redemption or sinking fund provisions applicable to our common stock.

Assessment. All outstanding shares of our common stock are fully paid and nonassessable.

Preferred Stock

As of the date of this prospectus, 10,000,000 shares of undesignated preferred stock are authorized, none of which are outstanding. The board of directors has the authority, without further action by the stockholders, to issue from time to time the undesignated preferred stock in one or more series and to fix the number of shares, designations, preferences, powers, and relative, participating, optional, or other special rights and the qualifications or restrictions thereof. The preferences, powers, rights, and restrictions of different series of preferred stock may differ with respect to dividend rates, amounts payable on liquidation, voting rights, conversion rights, redemption provisions, sinking fund provisions, purchase funds, and other matters. The issuance of preferred stock could decrease the amount of earnings and assets available for distribution to holders of our common stock or adversely affect the rights and powers, including voting rights, of the holders

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of our common stock and may have the effect of delaying, deferring or preventing a change in control of our company.

Registration Rights

On February 13, 2007, we entered into a registration rights agreement (and an amendment thereto that was made on March 12, 2007) with our largest stockholder, HMC Atlas Air, L.L.C. and Harbinger Capital Partners Special Situation Fund, L.P. (together, the Harbinger Entities) as required by our Final Modified Second Amended Joint Plan of Reorganization. As of March 4, 2009, and based on information filed with the SEC, the Harbinger Entities beneficially owned 8,406,290 shares (or approximately 39.9%) of our outstanding common stock, substantially all of which are covered by the registration rights agreement.

On April 16, 2007, we filed a shelf registration statement registering the resale of approximately 7.9 million shares of our common stock that are covered by the agreement and naming the Harbinger Entities as the selling security holders. In addition, HMC Atlas Air, L.L.C. has the right to request that we file with the SEC up to two additional registration statements, registering the resale of registrable shares by the Harbinger Entities, subject to certain limitations, including certain black-out rights. We also granted the Harbinger Entities piggyback registration rights with respect to registration statements filed by us for public offerings. The Harbinger Entities have agreed to enter into customary lock-up agreements that may be requested by an underwriter in connection with any offerings of common stock by us.

We have agreed to pay for certain registration expenses incurred in connection with any registration statement filed in accordance with the terms of the registration rights agreement and to reimburse the Harbinger Entities for certain legal expenses. The Harbinger Entities may transfer their rights under the agreement to certain U.S. persons that acquire at least 5% of our issued and outstanding common stock, provided that HMC Atlas Air, L.L.C. will retain the right (i) to request that we file a registration statement with the SEC and (ii) to amend, terminate or waive any term set forth in the agreement.

Certain Anti-Takeover Provisions of our Certificate of Incorporation and By-Laws and Delaware Law

Some provisions of Delaware law and our certificate of incorporation and by-laws contain provisions that could make the following transactions more difficult: (i) acquisition of us by means of a tender offer; (ii) acquisition of us by means of a proxy contest or otherwise; or (iii) removal of our incumbent officers and directors. These provisions, summarized below, are intended to encourage persons seeking to acquire control of us to first negotiate with our board of directors. These provisions also serve to discourage hostile takeover practices and inadequate takeover bids.

Issuance of Preferred Stock. As noted above, our board of directors, without stockholder approval, has the authority under our certificate of incorporation to issue preferred stock with rights superior to the rights of the holders of common stock. As a result, preferred stock could be issued quickly and easily, could adversely affect the rights of holders of common stock and could be issued with terms calculated to delay or prevent a change in control or make removal of management more difficult.

Stockholder Meetings. A majority of our board of directors, the chairman of the board or the chief executive officer may call special meetings of stockholders.

Requirements for Advance Notification of Stockholder Nominations and Proposals. Our by-laws contain advance notice procedures with respect to stockholder proposals and the nomination of candidates for election as directors, other than nominations made by or at the direction of our board of directors or a committee thereof.

Delaware Anti-Takeover Statute. We are subject to Section 203 of the Delaware General Corporation Law, which, subject to certain exceptions, prohibits persons deemed interested stockholders from engaging in a business combination with a Delaware corporation for three years following the date these persons become interested stockholders, unless the business combination is approved in a prescribed manner. Generally, an interested stockholder is an entity or person who, together with affiliates and associates, owns, or within three years prior to the determination of interested stockholder status did own, 15% or more of a

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corporation's voting stock. Generally, a business combination includes a merger, asset or stock sale, or other transaction resulting in a financial benefit to the interested stockholder. The existence of this provision may have an anti-takeover effect with respect to transactions not approved in advance by the board of directors.

The provisions of Delaware law and our certificate of incorporation and by-laws could have the effect of discouraging others from attempting hostile takeovers and, as a consequence, they may also inhibit temporary fluctuations in the market price of our common stock that often result from actual or rumored hostile takeover attempts. Such provisions may also have the effect of preventing changes in our management. It is possible that these provisions could make accomplishing transactions that stockholders may otherwise deem to be in their best interests more difficult.

Stockholder Rights Plan

On May 22, 2009, our board of directors adopted a stockholder rights plan and declared a dividend distribution of one stock purchase right for each outstanding share of our common stock to stockholders of record as of the close of business on June 5, 2009. After such date and until the plan distribution date, the rights will automatically attach to each share of our common stock issued. Accordingly, we will issue one stock purchase right with each common share issued while the rights plan remains in effect, including shares issued under this prospectus. The rights are transferable with our common stock until they become exercisable, but are not exercisable until the plan distribution date (as described below). The rights will expire at the close of business on May 25, 2012, unless we redeem them at an earlier date. Each right entitles the registered holder to purchase one share of common stock at a cash exercise price of \$55.00 per share, subject to adjustment in certain circumstances.

The plan distribution date is (a) the earlier of: (i) the close of business on the tenth business day following the earlier of (1) the first public announcement that a person, entity or group of affiliated or associated persons (an Acquiring Person) has acquired beneficial ownership of 15% or more of our outstanding shares of common stock, other than as a result of any stock repurchases by us or certain inadvertent actions by a stockholder and (2) the date on which a majority of our board of directors has actual knowledge that an Acquiring Person has acquired beneficial ownership of 15% or more of our outstanding shares of common stock (the date of said announcement being referred to as the Stock Acquisition Date), or (ii) the close of business on the tenth business day following the commencement of a tender offer or exchange offer that could result upon its consummation in a person or group becoming the beneficial owner of 15% or more of our outstanding shares of common stock or (b) such later date as our board of directors may determine. A person who would otherwise be an Acquiring Person upon the adoption of the rights agreement will not be considered an Acquiring Person unless and until such person, or any affiliate of such person, acquires beneficial ownership of additional shares of our common stock after the adoption of the rights agreement (other than pursuant to a stock dividend or stock split), in which case such person shall be an Acquiring Person.

In event that a Stock Acquisition Date occurs, each holder of a right (other than an Acquiring Person or its associates or affiliates, whose rights shall become null and void) will thereafter have the right to receive upon exercise, that number of shares of our common stock (or, in certain circumstances, including if there are insufficient shares of our common stock to permit the exercise in full of the rights, shares or units of preferred stock, other securities, cash or property, or any combination of the foregoing) having a market value of two times the exercise price of the right.

At any time after a person becomes an Acquiring Person, our board of directors may, at its option, exchange all or any part of the then outstanding and exercisable rights for our shares of common stock at an exchange ratio specified in the rights agreement.

The rights agreement is designed to protect our stockholders in the event of unsolicited offers to acquire us and other coercive takeover tactics, which in the opinion of our board of directors, could impair its ability to represent our stockholders' interests. The provisions of the rights agreement may render an unsolicited takeover more difficult or less

likely to occur or may prevent a takeover, even though it may offer our

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stockholders the opportunity to sell their stock at a price above the prevailing market rate and may be favored by a majority of our stockholders.

Limitations on Liability and Indemnification of Officers and Directors

Our certificate of incorporation limits the liability of our directors to the fullest extent permitted by the Delaware General Corporation Law and our by-laws provide that we will indemnify our directors and officers to the fullest extent permitted by that law.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is BNY Mellon Shareowner Services.

NASDAQ Global Select Market

Our common stock is listed on The NASDAQ Global Select Market under the symbol AAWW.

Foreign Ownership Restrictions

Under federal law and the Department of Transportation requirements, we must be owned and actually controlled by citizens of the United States as that term is defined in 49 U.S.C. § 40102 (a)(15). In this regard, our President and at least two-thirds of our Board and officers must be U.S. citizens, at least 75% of our outstanding voting common stock must be owned and controlled, directly or indirectly, by persons who are citizens of the United States, and not more than 25% of our outstanding voting common stock may be owned and controlled, directly or indirectly, by persons who are not citizens of the United States. We believe that on the date of this prospectus we are in compliance with these requirements.

Under our charter documents, consistent with U.S. law, there is a separate stock record, designated the Foreign Stock Record, for the registration of Voting Stock that is Beneficially Owned by persons who are not citizens of the United States. Voting Stock means all outstanding shares of our capital stock that we may issue from time to time which, by their terms, may vote. Beneficially Owned refers to owners of our securities who, directly or indirectly, have or share voting power and/or investment power. Our certificate of incorporation and by-laws prohibit persons who are not citizens of the United States from voting their beneficially owned shares of common stock unless the shares are registered in the Foreign Stock Record.

At no time will ownership of our shares of common stock representing more than the Maximum Percentage be registered in the Foreign Stock Record. Maximum Percentage, which currently is 25%, refers to the maximum percentage of voting power of Voting Stock which may be voted by, or at the direction of, non-U.S. citizens without violating applicable statutory, regulatory or interpretative restrictions or adversely affecting Atlas's or Polar's operating certificates or authorities. If we find that the combined voting power of Voting Stock then registered in the Foreign Stock Record exceeds the Maximum Percentage, the registration of such shares will be removed from the Foreign Stock Record, in reverse chronological order based on the date of registration, and the voting rights of such Voting Stock removed from the Foreign Stock Record will be automatically suspended, sufficient to reduce the combined voting power of the shares so registered to an amount not in excess of the Maximum Percentage. It is the duty of each stockholder who is not a citizen of the United States to register his, her or its equity securities on our Foreign Stock Record.

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PLAN OF DISTRIBUTION

We will set forth in the applicable prospectus supplement a description of the plan of distribution of the securities that may be offered by us pursuant to this prospectus.

LEGAL MATTERS

In connection with particular offerings of our securities in the future, and unless otherwise indicated in the applicable prospectus supplement, the validity of those securities will be passed upon for us by Ropes & Gray LLP, Boston, Massachusetts. Additional legal matters may be passed on for us or any underwriters, dealers or agents by counsel that we will name in the applicable prospectus supplement.

EXPERTS

The financial statements as of and for the years ended December 31, 2008 and 2007, and management's assessment of the effectiveness of internal control over financial reporting (which is included in Management's Report on Internal Control over Financial Reporting) as of December 31, 2008 incorporated in this Prospectus by reference to Atlas Air Worldwide Holdings, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2008, have been so incorporated in reliance on the report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

The consolidated financial statements of Atlas Air Worldwide Holdings, Inc. for the year ended December 31, 2006 appearing in Atlas Air Worldwide Holdings, Inc. Annual Report (Form 10-K) for the year ended December 31, 2008 (including schedules appearing therein), have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their report thereon, included therein, and incorporated herein by reference. Such consolidated financial statements are incorporated herein by reference in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

In this prospectus, we incorporate by reference the information we file with the SEC, which means that we can disclose important business, financial and other information to you in this prospectus by referring you to the documents containing this information. The information incorporated by reference is considered to be part of this prospectus, and information that we file with the SEC after the date of this prospectus will automatically update and supersede this information. However, any information contained herein shall modify or supersede information contained in documents we filed with the SEC before the date of this prospectus.

We incorporate by reference in this prospectus the documents listed below and any other documents we file with the SEC in the future (other than, in all cases, the portions of those documents deemed to be furnished to, and not filed with, the SEC) under Section 13(a), 13(c), 14 or 15(d) of the Exchange Act until the offering of all the securities that may be offered by this prospectus is completed:

our Annual Report on Form 10-K for the year ended December 31, 2008 filed with the SEC on February 26, 2009 (including the portions of our definitive Proxy Statement on Schedule 14A incorporated therein by reference);

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our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2009 filed with the SEC on May 5, 2009;

our Current Report on Form 8-K, filed with the SEC on February 6, 2009 (only with respect to Item 2.06 thereto);

the description of our common stock which is contained in our registration statement on Form 8-A filed with the SEC on June 19, 2001 pursuant to Section 12 of the Exchange Act, including any subsequent amendments or reports filed for the purpose of updating that description; and

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the description of our stockholder rights plan that is contained in our Current Report on Form 8-K, filed with the SEC on May 27, 2009, including any amendments or reports filed for the purpose of updating such description.

THE INFORMATION CONTAINED ON OUR WEBSITE DOES NOT CONSTITUTE A PART OF, AND IS NOT INCORPORATED BY REFERENCE INTO, THIS PROSPECTUS.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available over the Internet at the SEC's web site at <http://www.sec.gov>. You may also read and copy any document we file with the SEC at its public reference facility:

Public Reference Room
100 F Street, N.E.
Room 1580
Washington, DC 20549

You may also obtain copies of the documents at prescribed rates by writing to the Public Reference Room of the SEC at the above address. Please call 1-800-SEC-0330 for further information on the operations of the Public Reference Room and copying charges.

We will furnish without charge to each person to whom a copy of this prospectus is delivered, upon written or oral request, a copy of the information that has been incorporated into this prospectus by reference but not delivered with the prospectus (except exhibits, unless they are specifically incorporated into this prospectus by reference). You should direct any requests for copies to:

Atlas Air Worldwide Holdings, Inc.
2000 Westchester Avenue
Purchase, New York 10577
Ph: (914) 701-8000
Attention: Adam R. Kokas, Senior Vice President, General Counsel & Secretary

Table of Contents**PART II****INFORMATION NOT REQUIRED IN PROSPECTUS****Item 14. *Other Expenses of Issuance and Distribution.***

The following table sets forth the various expenses in connection with the sale and distribution of the securities being registered. We will bear all of the expenses shown below.

Securities and Exchange Commission registration fee	\$ 27,900
Printing and engraving expenses	*
Legal fees and expenses	*
Accounting fees and expenses	*
Transfer agent fees and expenses	*
Trustee fees and expenses	*
Miscellaneous	*
 Total	 \$ *

* The amount of securities and number of offerings are indeterminable and the expenses cannot be estimated at this time.

Item 15. *Indemnification of Directors and Officers.*

Section 145 of the Delaware General Corporation Law (DGCL) provides that a corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal or investigative (other than an action by or in the right of the corporation) by reason of the fact that he is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him in connection with such action, suit or proceeding if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his conduct was unlawful.

Section 145 further provides that a corporation similarly may indemnify any such person serving in any such capacity who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor, against expenses actually and reasonably incurred in connection with the defense or settlement of such action or suit if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation and except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Delaware Court of Chancery or such other court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

Section 102(b)(7) of the DGCL permits a corporation to include in its certificate of incorporation a provision eliminating or limiting the personal liability of a director to the corporation or its stockholders for monetary damages

for breach of fiduciary duty as a director, provided that such provision shall not eliminate or limit the liability of a director (i) for any breach of the director's duty of loyalty to the corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) under Section 174 of the DGCL (relating to unlawful payment of dividends and unlawful stock purchase and redemption) or (iv) for any transaction from which the director derived an improper personal benefit.

Our certificate of incorporation provides that our directors shall not be liable to us or our stockholders for monetary damages for breach of fiduciary duty as a director except to the extent that exculpation from liabilities is not permitted under the DGCL as in effect at the time such liability is determined. Our certificate

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of incorporation further provides that we shall indemnify our directors and officers to the fullest extent permitted by the DGCL.

We have obtained director and officer liability insurance under which, subject to the limitations of such policies, coverage will be provided (a) to our directors and officers against loss arising from claims made by reason of breach of fiduciary duty or other wrongful acts as a director or officer, including claims relating to public securities matters and (b) to us with respect to payments which may be made by us to these officers and directors pursuant to the above indemnification provision or otherwise as a matter of law.

We have also entered into indemnification agreements with our directors and certain of our officers. The indemnification agreements provide our directors and certain of our officers with further indemnification to the maximum extent permitted by the DGCL.

Item 16. *Exhibits and Financial Statement Schedules.*

The list of exhibits is set forth beginning on page II-7 of this Registration Statement and is incorporated herein by reference.

Item 17. *Undertakings.*

The undersigned Registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

(i) to include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;

(ii) to reflect in the prospectus any facts or events arising after the effective date of the Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the Registration Statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective Registration Statement; and

(iii) to include any material information with respect to the plan of distribution not previously disclosed in the Registration Statement or any material change to such information in the Registration Statement;

provided, however, that paragraphs (i), (ii) and (iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the SEC by the Registrant pursuant to Section 13 or Section 15(d) of the Securities and Exchange Act of 1934, that are incorporated by reference in the Registration Statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the Registration Statement.

provided further, however, that, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new Registration Statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(2) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(3) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(i) Each prospectus filed by the Registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the Registration Statement as of the date the filed prospectus was deemed part of and included in the Registration Statement; and

(ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act of

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1933 shall be deemed to be part of and included in the Registration Statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the Registration Statement relating to the securities in the Registration Statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof. *Provided, however*, that no statement made in a registration statement or prospectus that is part of the Registration Statement or made in a document incorporated or deemed incorporated by reference into the Registration Statement or prospectus that is part of the Registration Statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the Registration Statement or prospectus that was part of the Registration Statement or made in any such document immediately prior to such effective date.

(4) That, for the purpose of determining liability of the Registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities, the undersigned Registrant undertakes that in a primary offering of securities of the undersigned Registrant pursuant to this Registration Statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned Registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned Registrant relating to the offering required to be filed pursuant to Rule 424;

(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned Registrant or used or referred to by the undersigned Registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned Registrant or its securities provided by or on behalf of the undersigned Registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned Registrant to the purchaser.

(5) That, for purposes of determining any liability under the Securities Act of 1933, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the Registration Statement shall be deemed to be a new Registration Statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(6) To file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the SEC under Section 305(b)(2) of the Trust Indenture Act.

(7) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question

whether such indemnification by it is against public policy as expressed in the Securities Act of 1933 and will be governed by the final adjudication of such issue.

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SIGNATURES

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Purchase, State of New York, on the 4th day of June 2009.

ATLAS AIR WORLDWIDE HOLDINGS, INC.

By: /s/ William J. Flynn

Name: William J. Flynn

Title: President and Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each of the undersigned, being a director or officer of Atlas Air Worldwide Holdings, Inc., a Delaware corporation (the Company), hereby constitutes and appoints William J. Flynn, John W. Dietrich, Jason Grant and Adam R. Kokas and each of them, his true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign the Company's Registration Statement on Form S-3, and any and all amendments thereto (including post-effective amendments), and to file the same, including any registration statement filed pursuant to Rule 462(b) under the Securities Act, with all exhibits thereto, and other documents in connection therewith, with the SEC, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done so that such registration statement shall comply with the Securities Act and the applicable rules and regulations adopted or promulgated thereunder, as fully and to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them or their substitute or resubstitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed by the following persons on June 4, 2009 on behalf of the Registrant and in the capacities indicated.

Signature	Capacity
/s/ Eugene I. Davis Eugene I. Davis	Chairman of the Board, Director
/s/ William J. Flynn William J. Flynn	President, Chief Executive Officer and Director (Principal Executive Officer)
/s/ Jason Grant Jason Grant	Senior Vice President and Chief Financial Officer (Principal Financial Officer)
/s/ Spencer Schwartz Spencer Schwartz	Vice President and Controller (Principal Accounting Officer)
/s/ Robert F. Agnew Robert F. Agnew	Director

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Signature	Capacity
/s/ Timothy J. Bernlohr Timothy J. Bernlohr	Director
/s/ James S. Gilmore III James S. Gilmore III	Director
/s/ Carol B. Hallett Carol B. Hallett	Director
/s/ Frederick McCorkle Frederick McCorkle	Director

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EXHIBIT INDEX

Exhibit Number	Description
1.1*	Form of Underwriting Agreement.
2.1	Findings of Fact, Conclusions of Law, and Order Under 11 U.S.C. §§ 1129(a) and(b) and Fed. R. Bankr. P. 3020 Confirming the Final Modified Second Amended Joint Plan of Reorganization of Atlas Air Worldwide Holdings, Inc. and Its Affiliated Debtors and Debtors-in-Possession. (Incorporated by reference to the exhibits to the Company's Current Report on Form 8-K filed with the SEC on July 26, 2004).
2.2	Second Amended Disclosure Statement Under 11 U.S.C. 1125 In Support of the Debtors' Second Amended Joint Chapter 11 Plan. (Incorporated by reference to the exhibits to the Company's Current Report on Form 8-K filed with the SEC on July 26, 2004).
3.1	Certificate of Incorporation of the Company (Incorporated by reference to the exhibits to the Company's Current Report on Form 8-K filed with the SEC on February 21, 2001).
3.2	Bylaws of the Company (Incorporated by reference to the exhibits to the Company's Current Report on Form 8-K filed with the SEC on July 3, 2006).
4.1.1	Rights Agreement, dated as of May 26, 2009, between the Company and Mellon Investor Services LLC, as Rights Agent (Incorporated by reference to the exhibits to the Company's Current Report on Form 8-K filed with the SEC on May 27, 2009).
4.1.2**	Form of Senior Indenture.
4.1.3**	Form of Subordinated Indenture.
4.1.4*	Certificate of designations, preferences and rights with respect to any preferred stock issued hereunder.
5.1**	Opinion of Ropes & Gray LLP.
12.1**	Computation of Ratio of Earnings to Fixed Charges and Preferred Stock Dividends.
23.1**	Consent of Ropes & Gray LLP (included in Exhibit 5.1).
23.2**	Consent of PricewaterhouseCoopers LLP.
23.3**	Consent of Ernst & Young LLP.
24.1**	Power of Attorney (included on the signature pages to this Registration Statement).
25***	Form T-1 Statement of Eligibility of Trustee under the Trust Indenture Act of 1939, as amended, of the Trustees to be designated with respect to the Indentures.

* To be filed, if necessary, as an exhibit to a post-effective amendment to this Registration Statement or as an exhibit to a Current Report on Form 8-K and incorporated herein by reference.

** Filed herewith.

*** To be filed with the SEC on Form T-1 within two business days following the offering of the Debt Securities represented thereby, pursuant to Rule 5b-3 promulgated under the Trust Indenture Act of 1939, as amended.