Palmer Peter Form 3 February 23, 2012

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

OMB

3235-0104

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

Number: January 31, Expires:

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OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

SECURITIES

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement TransDigm Group INC [TDG] Palmer Peter (Month/Day/Year) 02/15/2012 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) 1301 EAST 9TH (Check all applicable) STREET, Â SUITE 3710 (Street) 6. Individual or Joint/Group 10% Owner Director _X__ Officer Other Filing(Check Applicable Line) (give title below) (specify below) _X_ Form filed by One Reporting President, AdelWiggins Group Person CLEVELAND, OHÂ 44114 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 4. Nature of Indirect Beneficial 1. Title of Security 2. Amount of Securities Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 5) (Instr. 4) Form: Direct (D) or Indirect (I) (Instr. 5) Â Common Stock 0 D Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly. Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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

1. Title of Derivative Security	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
(Instr. 4)	Expiration Date	Securities Underlying	Conversion	Ownership	Beneficial
	(Month/Day/Year)	Derivative Security	or Exercise	Form of	Ownership
		(Instr. 4)	Price of	Derivative	(Instr. 5)
		Title	Derivative	Security:	
			Security	Direct (D)	

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	Date Exercisable	Expiration Date		Amount or Number of Shares		or Indirect (I) (Instr. 5)	
Stock Option (1)	10/01/2009	10/01/2015	Common Stock	17,468	\$ 13.37	D	Â
Stock Option (2)	10/01/2011	10/01/2015	Common Stock	3,990	\$ 13.37	D	Â
Stock Option (3)	10/01/2015	11/17/2018	Common Stock	35,000	\$ 27.08	D	Â
Stock Option	04/22/2011	04/22/2020	Common Stock	10,000	\$ 56.86	D	Â
Stock Option	11/14/2012	11/14/2021	Common Stock	10,500	\$ 97.42	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships				
1 8	Director	10% Owner	Officer	Other	
Palmer Peter					
1301 EAST 9TH STREET	â	â	President, AdelWiggins Group	â	
SUITE 3710	А	A	A Fresident, Aderwiggins Group	A	
CLEVELAND, OH 44114					

Signatures

/s/Halle F. Terrion, as Attorney-in-Fact for Peter 02/22/2012 Palmer

> **Signature of Reporting Person Date

Explanation of Responses:

- If the form is filed by more than one reporting person, see Instruction 5(b)(v).
- Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Vest based on the achievement of annual and cumulative per share operating performance targets between fiscal 2009 and fiscal 2013.
- (2) Vest based on the achievement of annual and cumulative per share operating performance targets between fiscal 2011 and fiscal 2015.
- (3) Vest based on the achievement of annual and cumulative per share operating performance targets between fiscal 2015 and fiscal 2016. Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure.

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