

MCDONNELL JOHN F  
 Form 5  
 February 14, 2007

**FORM 5**

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

OMB APPROVAL  
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).  
 Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

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

1. Name and Address of Reporting Person \*  
 MCDONNELL JOHN F

(Last) (First) (Middle)

1034 SOUTH BRENTWOOD  
 BLVD., SUITE 1860

(Street)

ST. LOUIS, MO 631171229

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 BOEING CO [BA]

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
 12/31/2006

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

6. Individual or Joint/Group Reporting

(check applicable line)

Form Filed by One Reporting Person  
 Form Filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				(A) or (D) Amount Price			
Common	05/08/2006		G	1,496 D \$0	695,080	D	
Common	05/09/2006		G	11,571 D \$0	683,509	D	
Common					21,700	I	Family Trust 22
Common					1,217,863	I	Family Trust 23
Common					230,806	I	Family Trust 26

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Common	Â	Â	Â	Â	Â	Â	270,452	I	Family Trust 30
Common	Â	Â	Â	Â	Â	Â	471,700	I	Family Trust 31
Common	Â	Â	Â	Â	Â	Â	750,000	I	Family Trust 32
Common	11/03/2006	Â	G	18,425	D	\$ 0	665,084	D	Â
Common	11/03/2006	Â	G	16,675	D	\$ 0	648,409	D	Â
Common	11/07/2006	Â	G	1,206	D	\$ 0	647,203	D	Â
Common	11/10/2006	Â	G	2,351	D	\$ 0	644,852	D	Â
Common	Â	Â	Â	Â	Â	Â	171,582.51	I	Boeing 401(k) Plan
Common	Â	Â	Â	Â	Â	Â	171,485	I	Family Trust 01
Common	Â	Â	Â	Â	Â	Â	29,890	I	Family Trust 02
Common	Â	Â	Â	Â	Â	Â	27,798	I	Family Trust 03
Common	Â	Â	Â	Â	Â	Â	56,790	I	Family Trust 04
Common	Â	Â	Â	Â	Â	Â	58,699	I	Family Trust 05
Common	Â	Â	Â	Â	Â	Â	27,798	I	Family Trust 06
Common	Â	Â	Â	Â	Â	Â	56,790	I	Family Trust 07
Common	Â	Â	Â	Â	Â	Â	58,699	I	Family Trust 08
Common	Â	Â	Â	Â	Â	Â	27,798	I	Family Trust 09
Common	Â	Â	Â	Â	Â	Â	56,790	I	Family Trust 10
Common	Â	Â	Â	Â	Â	Â	27,798	I	Family Trust 11
Common	Â	Â	Â	Â	Â	Â	55,207	I	Family Trust 12
Common	Â	Â	Â	Â	Â	Â	56,790	I	Family Trust 13
Common	Â	Â	Â	Â	Â	Â	27,798	I	Family

Common	Â	Â	Â	Â	Â	Â	55,207	I	Trust 14 Family Trust 15
Common	Â	Â	Â	Â	Â	Â	56,790	I	Family Trust 16

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9.
					(A) (D)	Date Exercisable Expiration Date	Title Amount or Number of Shares		

### Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MCDONNELL JOHN F 1034 SOUTH BRENTWOOD BLVD. SUITE 1860 ST. LOUIS, MO 631171229	Â X	Â	Â	Â

### Signatures

By: /s/ Mark R. Pacioni as Attorney-in-Fact 02/14/2007  
 \*\*Signature of Reporting Person Date

### Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 4(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).

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.