

MCDONNELL JOHN F  
 Form 5  
 January 14, 2005

**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)  
 12/31/2004

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) Price			
Common	05/11/2004	^	G	25,560 D \$ 0	362,399	D	^
Common	11/04/2004	^	G	8,355 D \$ 0	354,044	D	^
Common	11/04/2004	^	G	7,252 D \$ 0	346,792 <sup>(1)</sup>	D	^
Common	05/19/2004	^	G <sup>(2)</sup>	357,693 A \$ 0	357,693	I	Family Trust 23
Common	^	^	^	^ ^ ^	170,727	I	Boeing 401(k) Plan

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Common	Â	Â	Â	Â	Â	Â	171,638	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 Trust 14
Common	Â	Â	Â	Â	Â	Â	55,207	I	Family Trust 15
Common	Â	Â	Â	Â	Â	Â	56,790	I	Family Trust 16
Common	Â	Â	Â	Â	Â	Â	21,700	I	Family Trust 22
Common	Â	Â	Â	Â	Â	Â	230,806	I	Family Trust 26
Common	Â	Â	Â	Â	Â	Â	244,332	I	Family Trust 27
Common	Â	Â	Â	Â	Â	Â	434,031	I	Family Trust 28
Common	Â	Â	Â	Â	Â	Â	1,059,383	I	

Common	Â	Â	Â	Â	Â	Â	1,000,000	I	Family Trust 29
									Family Trust 30

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

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**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. of
					(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

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## Signatures

/s/ McDonnell,  
John F.

01/14/2005

\*\*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).

(1) Since the reporting person's last report, 1,042,954 shares previously owned indirectly through three separate grantor retained annuity trust (Family Trust 25, Family Trust 28 and Family Trust 29) of which the reporting person is sole trustee and income beneficiary have been distributed back to the reporting person. Additionally, 1,000,000 shares previously owned directly have been contributed to a grantor retained annuity trust (Family Trust 30) of which the reporting person is sole trustee and income beneficiary.

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- (2) Effective May 19, 2004, Anne McDonnell became a Trustee of the Family Trust #23 requiring this entity to be incorporated in the reporting persons transactions reports on Forms 4 or Form 5.

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