MCDONNELL JOHN F

Form 5

January 14, 2005

FORM 5

OMB APPROVAL

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

OMB 3235-0362 Number: January 31,

Expires:

no longer subject to Section 16. Form 4 or Form 5 obligations may continue.

Check this box if

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL

2005 Estimated average burden hours per response... 1.0

See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported

Form 4

30(h) of the Investment Company Act of 1940

OWNERSHIP OF SECURITIES

Transactions Reported

1. Name and Address of Reporting Person * MCDONNELL JOHN F			2. Issuer Name and Ticker or Trading Symbol BOEING CO [BA]	5. Relationship of Reporting Person(s) to Issuer			
(Last) 1034 SOUTH BLVD., SU		(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2004	(Check all applicable) _X_ Director 10% Owner Officer (give title below) Check all applicable) 10% Owner Other (spec below)			
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Reporting (check applicable line)			

ST. LOUIS, MOÂ 631171229

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

(City)	(State)	(Zip) 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. Securitie (A) or Disp (Instr. 3, 4	osed o	of (D)	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)	
Common	05/11/2004	Â	G	25,560	D	\$0	362,399	D	Â	
Common	11/04/2004	Â	G	8,355	D	\$0	354,044	D	Â	
Common	11/04/2004	Â	G	7,252	D	\$0	346,792 (1)	D	Â	
Common	05/19/2004	Â	G(2)	357,693	A	\$0	357,693	I	Family Trust 23	
Common	Â	Â	Â	Â	Â	Â	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	

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Common Â Â Â Â Â 1,000,000 I

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

Family Trust 29

Family Trust 30

Persons who respond to the collection of information contained in this form are not required to respond unless

(9-02)

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

the form displays a currently valid OMB control number.

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)		ate	7. Titl Amou Under Secur (Instr.	int of rlying	8. Price of Derivative Security (Instr. 5)
					(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

MCDONNELL JOHN F

1034 SOUTH BRENTWOOD BLVD.
SUITE 1860
ST. LOUIS, MOÂ 631171229

Signatures

Reporting Person

/s/ McDonnell,
John F.

**Signature of 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).

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.

Reporting Owners 3

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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.

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.