MCDONNELL JOHN F

Check this box if

no longer subject

to Section 16.

5 obligations

may continue.

Form 4 or Form

Form 5

February 08, 2006

FORM 5

OMB APPROVAL

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ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). 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

Transactions Reported

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer MCDONNELL JOHN F Symbol BOEING CO [BA] (Check all applicable) (Last) (First) (Middle) 3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) _X_ Director 10% Owner Officer (give title Other (specify 12/31/2005 below) below) 1034 SOUTH BRENTWOOD BLVD., Â SUITE 1860 (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (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	e I - Non-Deri	vative Sec	urities	Acqui	red, Disposed of	or Beneficiall	y 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)	(A) or Dis (D)	ecurities Acquired or Disposed of tr. 3, 4 and 5) (A) or ount (D) Price		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	05/06/2005	Â	G	14,390	D	\$0	822,978	D	Â
Common	11/02/2005	Â	G	21,250	D	\$0	801,728	D	Â
Common	11/14/2005	Â	G	153	D	\$ 0	171,485	I	Family Trust 01
Common	Â	Â	Â	Â	Â	Â	169,692.74	I	Boeing 401(k) Plan

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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	1,217,863	I	Family Trust 23
Common	Â	Â	Â	Â	Â	Â	230,806	I	Family Trust 26
Common	Â	Â	Â	Â	Â	Â	627,000	I	Family Trust 30
Common	Â	Â	Â	Â	Â	Â	760,000	I	Family Trust 31

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Reminder: Report on a separate line for each class of securities beneficially 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.

SEC 2270 (9-02)

of D

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	3. Transaction Date (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative	6. Date Exerc Expiration Day/ (Month/Day/	ate	7. Title Amount Underly Securities	t of ying	8. Price of Derivative Security (Instr. 5)	
	Derivative Security			Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			(Instr. 3	3 and 4)		
				(A) (D)	Date Exercisable	Expiration Date	Title N	Number		

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	ÂX	Â	Â	Â			

Signatures

By: /s/ Mark R. Pacioni as Attorney-in-Fact 02/08/2006

**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) By Spouse as Trustee for Family Trust #1

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.

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