BOEING CO Form 4 April 21, 2006

FORM 4

OMB APPROVAL

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

OMB Number:

Check this box if no longer subject to Section 16. Form 4 or

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

Expires: 2005 Estimated average burden hours per 0.5 response...

3235-0287

January 31,

Form 5 obligations may continue. See Instruction

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

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * SOODIK BONNIE W			2. Issuer Name and Ticker or Trading Symbol BOEING CO [BA]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check an applicable)		
100 N. RIVER 5003-1001	SIDE PLAZ	ZA, M/C	(Month/Day/Year) 04/19/2006	Director 10% Owner Normal Sr. V.P., Internal Governance		
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person		
CHICAGO, IL 60606				Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tab	le I - Non-	Derivative :	Securi	ties Acqu	ired, Disposed of	f, or Beneficia	lly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securiti or(A) or Dis (Instr. 3, 4	posed	of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common	04/19/2006		M	3,234.1	A	\$ 0	21,183.1	D	
Common	04/19/2006		F	1,210.1	D	\$ 84.96	19,973	D	
Common							1,319.74	I	Boeing 401(k) Plan
Common							108.17	I	By PAYSOP
Common							10,053.93	I	Career Shares

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

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SEC 1474 (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. 5. Number of Derivative TransactionSecurities Acquired (A) Code or Disposed of (D) (Instr. 8) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title a Underlyi (Instr. 3 a	
	Š						Date Exercisable	Expiration Date	Title
				Code V	V (A)	(D)			
2005 Performance Shares	<u>(1)</u>	04/19/2006		M		3,234.1	(2)	02/28/2010	Comm
2005 Performance Shares	(1)	04/19/2006		M		2,156.07 (3)	(2)	02/28/2010	Comm
Deferred Compensation Units	<u>(4)</u>	04/19/2006		M	2,171.79 (3)	9	<u>(5)</u>	<u>(5)</u>	Comm
Deferred Compensation Units	<u>(4)</u>	04/19/2006		A	542.95 (6)		<u>(5)</u>	(5)	Commo

Reporting Owners

Reporting Owner Name / Address	Relationships					
11.1.6	Director	10% Owner	Officer	Other		
SOODIK BONNIE W						
100 N. RIVERSIDE PLAZA M/C 5003-1001			Sr. V.P., Internal Governance			

Signatures

CHICAGO, IL 60606

By: /s/ Mark R. Pacioni as Attorney-in-Fact 04/21/2006

**Signature of Reporting Person Date

Reporting Owners 2

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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) Performance shares convert on 1 for 1 basis on vesting
- 2005 Performance Shares vest in the following installments when the average daily closing price of Boeing stock reaches, for a specified (2) period, the following dollar levels: 15% at \$74.49, 30% at \$79.82, 45% at \$85.14, 60% at \$90.46, 75% at \$95.78, 90% at \$101.10, 100% at \$106.42, 110% at \$111.74, 120% at \$117.06, and 125% at \$119.72.
- (3) Reflects deferral of phantom stock units by reporting person upon vesting of performance stock units. Units are calculated based upon the difference between the closing price and the fair market value on the date of the transaction.
- (4) Phantom stock units are convertible into common stock on a 1-for-1 basis.
- Phantom stock units acquired by reporting person pursuant to the Company's Deferred Compensation Plan. Units are payable in stock or (5), cash following termination for retirement, death, disability or layoff, Company match contributions are forfeited upon termination for any
- (5) cash following termination for retirement, death, disability or layoff. Company match contributions are forfeited upon termination for any reason other than retirement, death, disability or layoff.
- (6) Performance Share company match allocated to reporting person's performance share account under the deferred compensation plan.

Note: File three copies of this Form, one of which must be manually signed. If space 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.