BOEING CO Form SC 13G February 12, 2008

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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 ANNUAL FILING

THE BOEING CO.
(NAME OF ISSUER)

COMMON
(TITLE CLASS OF SECURITIES)
097023105
(CUSIP NUMBER)
12/31/2007
(DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT)

CHECK THE APPROPRIATE BOX TO DESIGNATE THE RULE PURSUANT TO WHICH THIS SCHEDULE IS FILED:

- (X) RULE 13D-1(B) () RULE 13D-1(C) () RULE 13D-1(D)
- \*THE REMAINDER OF THIS COVER PAGE SHALL BE FILLED OUT FOR A REPORTING PERSON'S INITIAL FILING ON THIS FORM WITH RESPECT TO THE SUBJECT CLASS OF SECURITIES, AND FOR ANY SUBSEQUENT AMENDMENT CONTAINING INFORMATION WHICH WOULD ALTER THE DISCLOSURES PROVIDED IN A PRIOR COVER PAGE.

THE INFORMATION REQUIRED IN THE REMAINDER OF THIS COVER PAGE SHALL NOT BE DEEMED TO BE "FILED" FOR THE PURPOSE OF SECTION 18 OF THE SECURITIES EXCHANGE ACT OF 1934 ("ACT") OR OTHERWISE SUBJECT TO THE LIABILITIES OF THAT SECTION OF THE ACT BUT SHALL BE SUBJECT TO ALL OTHER PROVISIONS OF THE ACT (HOWEVER, SEE THE NOTES).

S.S. OR I.R.S. IDENTIFICATION NO. OF PERSON STATE STREET BANK AND TRUST COMPANY, ACTING IN VARIOUS FIDUCIARY CAPACITIES. 04-1867445

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP.\*

NOT APPLICABLE

A \_\_\_ B \_\_

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

BOSTON, MASSACHUSETTS

- 5. SOLE VOTING POWER 31,672,308 SHARES
- 6. SHARED VOTING POWER 53,979,764 SHARES
- 7. SOLE DISPOSITIVE POWER 0 SHARES
- 8. SHARED DISPOSITIVE POWER 85,652,072 SHARES
- 9. AGGREGATED AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 85,652,072 SHARES
- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\*

NOT APPLICABLE

- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
- 12. TYPE OF REPORTING PERSON\*

CUSIP NO. 097023105

SCHEDULE 13G

PAGE 3 OF 5 PAGES

ITEM 1.

- (A) NAME OF ISSUER THE BOEING CO.
- (B) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES 100 N. RIVERSIDE PLAZA CHICAGO, ILLINOIS 60606

ITEM 2.

- (A) NAME OF PERSON FILING STATE STREET BANK AND TRUST COMPANY, TRUSTEE
- (B) ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE

STATE STREET FINANCIAL CENTER
ONE LINCOLN STREET, BOSTON, MA 02111

(C) CITIZENSHIP

BOSTON, MASSACHUSETTS

(D) TITLE CLASS OF SECURITIES

COMMON STOCK

(E) CUSIP NUMBER

097023105

- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A:
  - (B) X BANK AS DEFINED IN SECTION 3(A)(6) OF THE ACT

CUSIP NO. 097023105 SCHEDULE 13G PAGE 4 OF 5 PAGES

ITEM 4. OWNERSHIP

- (A) AMOUNT BENEFICIALLY OWNED 85,652,072 SHARES
- (B) PERCENT OF CLASS 11.0%
- (C) NUMBER OF SHARES AS TO WHICH SUCH PERSON HAS:
  - (I) SOLE POWER TO VOTE OR TO DIRECT THE VOTE 31,672,308 SHARES
- (II) SHARED POWER TO VOTE OR TO DIRECT THE VOTE 53,979,764 SHARES
- (III) SOLE POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF 0 SHARES
- (IV) SHARED POWER TO DISPOSE OR TO DIRECT THE DISPOSITION OF 85,652,072 SHARES
- ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

NOT APPLICABLE

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON.

THE BOEING COMPANY VOLUNTARY INVESTMENT PLAN = 6.96%

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY

NOT APPLICABLE

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

NOT APPLICABLE

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

NOT APPLICABLE

CUSIP NO. 097023105 SCHEDULE 13G PAGE 5 OF 5 PAGES

ITEM 10. CERTIFICATION

THE FOLLOWING CERTIFICATION SHALL BE INCLUDED IF THE STATEMENT IS FILED PURSUANT TO RULE 13D-1(B):

BY SIGNING BELOW I CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE SECURITIES REFERRED TO ABOVE WERE

ACQUIRED IN THE ORDINARY COURSE OF BUSINESS AND WERE NOT ACQUIRED FOR THE PURPOSE OF AND DO NOT HAVE THE EFFECT OF CHANGING OR INFLUENCING THE CONTROL OF THE ISSUER OF SUCH SECURITIES AND WERE NOT ACQUIRED IN CONNECTION WITH OR AS A PARTICIPANT IN ANY TRANSACTION HAVING SUCH PURPOSES OR EFFECT.

THIS REPORT IS NOT AN ADMISSION THAT STATE STREET BANK AND TRUST COMPANY IS THE BENEFICIAL OWNER OF ANY SECURITIES COVERED BY THIS REPORT, AND STATE STREET BANK AND TRUST COMPANY EXPRESSLY DISCLAIMS BENEFICIAL OWNERSHIP OF ALL SHARES REPORTED HEREIN PURSUANT TO RULE 13D-4.

### SIGNATURE

AFTER REASONABLE INQUIRY AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, I CERTIFY THAT THE INFORMATION SET FORTH IN THIS STATEMENT IS TRUE, COMPLETE AND CORRECT.

12 FEBRUARY 2008

STATE STREET CORPORATION
STATE STREET BANK AND TRUST COMPANY,
TRUSTEE

/s/ SYDNEY MARZEOTTI VICE PRESIDENT