DOCUMENT TYPE SC 13G
TEXT

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
SCHEDULE 13G
Under the Securities Exchange Act of 1934

Name of Issuer: ST. JUDE MEDICAL INC.
_____
Title of Class
of Securities: Common Stock

CUSIP Number: 790849103

1) NAME AND I.R.S. IDENTIFICATION NO. OF REPORTING PERSON

Prudential Financial, Inc. 22-3703799

2.) MEMBER OF A GROUP: (a) N/A
(b) N/A

3) SEC USE ONLY:

4) PLACE OF ORGANIZATION: New Jersey

NUMBER OF SHARES BENEFICIALLY OWNED BY REPORTING PERSON WITH:

5) Sole Voting Power: 1,565,494 See Exhibit A
6) Shared Voting Power: 12,040,529 See Exhibit A
7) Sole Dispositive Power: 1,565,494 See Exhibit A
8) Shared Dispositive Power: 17,075,134 See Exhibit A

9) AGGREGATE AMOUNT BENEFICIALLY OWNED:
18,640,628 See Exhibit A

10) AGGREGATE AMOUNT IN ROW (9) EXCLUDES SHARES: Not Applicable

11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):
5.3 See Exhibit A

12) TYPE OF REPORTING PERSON: HC

ITEM 1(a). NAME OF ISSUER:

ST. JUDE MEDICAL INC.

ITEM 1(b). ADDRESS OF ISSUER'S EXECUTIVE OFFICES:

ST. JUDE MEDICAL INC. One Lillehei Plaza St. Paul , MN 55117

ITEM 2(a). NAME OF PERSON FILING:

Prudential Financial, Inc.

ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE:

751 Broad Street
Newark, New Jersey 07102-3777

ITEM 2(c). CITIZENSHIP:

New Jersey

ITEM 2(d). TITLE OF CLASS OF SECURITIES:

Common Stock

ITEM 2(e). CUSIP NUMBER:

790849103

ITEM 3. The Person filing this statement is a Parent Holding Company as defined in Section 240.13d-1(b)(1)(ii)(G) of the Securities Exchange Act of 1934.

ITEM 4. OWNERSHIP:

(a) Number of Shares
Beneficially Owned: 18,640,628 See Exhibit A

(b) Percent of Class: 5.3

(c) Powers No. Of Shares

Sole power to vote or to direct the vote	1,565,494	See Exhibit A
Shared power to vote or to direct the vote	12,040,529	See Exhibit A
Sole power to dispose or to direct disposition	1,565,494	See Exhibit A
Shared power to dispose or to direct disposition	17,075,134	See Exhibit A

ITEM 5. OWNERSHIP OF 5% OR LESS OF A CLASS:

Not Applicable

ITEM 6. OWNERSHIP OF MORE THAN 5% ON BEHALF OF ANOTHER PERSON:

See Exhibit A

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

See Exhibit A

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP:

Not Applicable

ITEM 9. NOTICE OF DISSOLUTION OF GROUP:

Not Applicable

ITEM 10. CERTIFICATION:

By signing below, Prudential Financial, Inc. certifies that, to the best of its knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

The filing of this statement should not be construed as an admission that Prudential Financial, Inc. is, for purposes of Sections 13 or 16 of the Securities Exchange Act of 1934, the beneficial owner of such shares.

SIGNATURE

After reasonable inquiry and to the best of its knowledge and belief, Prudential Financial, Inc. certifies that the information set forth in this statement is true, complete and correct.

PRUDENTIAL FINANCIAL, INC.

By: Frank Adamo
Second Vice President

Date: 02/09/2007
As of: 12/31/2006

Exhibit A

ITEM 6. OWNERSHIP:

Prudential Financial, Inc. may be deemed the beneficial owner of securities beneficially owned by the Item 7 listed entities and may have direct or indirect voting and/or investment discretion over 18,640,628 shares which are held for it's own benefit or for the benefit of its clients by its separate accounts, externally managed accounts, registered investment companies, subsidiaries and/or other affiliates. Prudential Financial, Inc. is reporting the combined holdings of these entities for the purpose of administrative convenience.

These shares were acquired in the ordinary course of business, and not with the purpose or effect of changing or influencing control of the Issuer. The filing of this statement should not be construed as an admission that Prudential Financial, Inc. is, for the purposes of Sections 13 or 16 of the Securities Exchange Act of 1934, the beneficial owner of these shares.

ITEM 7. IDENTIFICATION/CLASSIFICATION:

Prudential Financial, Inc. is a Parent Holding Company and the direct or indirect parent of the following Registered Investment Advisers and Broker Dealers:

The Prudential Insurance Company of America		**IC,IA**
Prudential Investment Management, Inc.		**IA**
Jennison Associates LLC		**IA**
Pramerica Asset Management, Inc.		**IA**
Prudential Investments LLC		**IA**
Prudential Private Placement Investors, L.P.		**IA,PN**
PRUCO Securities, LLC		**IA,BD**
Prudential Investment Management Services LLC		**BD**
Prudential Equity Group, LLC.		**BD**
American Skandia Investment Services, Inc.		**IA**
American Skandia Marketing, Inc.		**BD**
Quantitative Management Associates LLC		**IA**
Prudential International Investments Advisers, LLC		**IA**
Global Portfolio Strategies, Inc.		**IA**
Pru Global Securities, LLC	**BD**	
Prudential Financial Derivatives, LLC	**BD**	