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OMB APPROVAL

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

FORM D NOTICE OF SALE OF SECURITIES PURSUANT TO REGULATION D, SECTION 4(6), AND/OR UNIFORM LIMITED OFFERING EXEMPTION

BEST AVAILABLE COPY

DATE RECEIVED

Name of Offering () Check if this is an amendment and name has changed, and indicate change.) Convertible Senior Subordinated Zero-Coupon Promissory Note Offering Filing Under (check box(es) that apply): () Rule 504 () Rule 505 (X) Rule 506 () Section 4(6) () ULOE Type of Filing: (X) New Filing () Amendment

PROCESSED

A. BASIC IDENTIFICATION DATA

JAN 16 2007

1. Enter the information requested about the issuer Name of issuer () check if this is an amendment and name has changed, and indicate change.) Third Wave Technologies, Inc. Address of Executive Offices (Number and Street, City, State, Zip Code) Telephone Number (including Area Code) 502 South Rosa Road Madison, Wisconsin 53719 608-273-8933 Address of Principal Business Operations (If different from Executive Offices) (Number and Street, City, State, Zip Code) Telephone Number (including Area Code)

THOMSON FINANCIAL

Brief Description of Business Third Wave is a growing leader in molecular diagnostics, providing DNA and RNA analysis products to clinical, research and agricultural customers.

Type of Business Organization (X) corporation () limited partnership, already formed () other (please specify): () business trust () limited partnership, to be formed

Actual or Estimated Date of Incorporation or Organization: Month 08 Year 00 (X) Actual () Estimated

Jurisdiction of Incorporation or Organization: (Enter two-letter U.S. Postal Service abbreviation for State: DE) CN for Canada; FN for other foreign jurisdiction)

GENERAL INSTRUCTIONS

Federal: Who must File: All issuers making an offering of securities in reliance on an exemption under Regulation D or Section 4(6), 17 CFR 230.501 et seq. or 15 U.S.C. 77d(6). When To File: A notice must be filed no later than 15 days after the first sale of securities in the offering. A notice is deemed filed with the U.S. Securities and Exchange Commission (SEC) on the earlier of the date it is received by the SEC at the address given below or, if received at that address after the date on which it is due, on the date it was mailed by United States registered or certified mail to that address. Where To File: U.S. Securities and Exchange Commission, 450 Fifth Street, N.W., Washington, D.C. 20549. Copies Required: Five (5) copies of this notice must be filed with the SEC, one of which must be manually signed. Any copies not manually signed must be photocopies of the manually signed copy or bear typed or printed signatures. Information Required: A new filing must contain all information requested. Amendments need only report the name of the issuer and offering, any changes thereto, the information requested in Part C, and any material changes from the information previously supplied in Parts A and B. Part E and the Appendix need not be filed with the SEC. Filing Fee: There is no federal filing fee.

State: This notice shall be used to indicate reliance on the Uniform Limited Offering Exemption (ULOE) for sales of securities in those states that have adopted ULOE and that have adopted this form. Issuers relying on ULOE must file a separate notice with the Securities Administrator in each state where sales are to be, or have been made. If a state requires the payment of a fee as a precondition to the claim for the exemption, a fee in the proper amount shall accompany this form. This notice shall be filed in the appropriate states in accordance with state law. The Appendix to the notice constitutes a part of this notice and must be completed.

ATTENTION Failure to file notice in the appropriate states will not result in a loss of the federal exemption. Conversely, failure to file the appropriate federal notice will not result in a loss of an available state exemption unless such exemption is predicated on the filing of a federal notice.

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 SEC 1972 (6-02) 1 of 8 control number.

2-2-07

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
State of Wisconsin Investment Board

Business or Residence Address (Number and Street, City, State, Zip Code)
P.O. Box 7842, Madison, WI 53707

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Deerfield Group

Business or Residence Address (Number and Street, City, State, Zip Code)
c/o Bisys Management, Bison Court, Columbus Centre, Road Town, Tortola, British Virginia Islands

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Conroy, Kevin T.

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Arora, Maneesh

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Trifunovich, Ivan

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Ahn, Cindy S.

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Bellanos, John

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Garces, Jorge A.

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Hamilton, Greg

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Napier, Kay

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Connelly, James

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Thompson, David A.

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Sterling, Lionel

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Murphy, Lawrence

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Brunner, Gordon

Business or Residence Address (Number and Street, City, State, Zip Code)
502 South Rosa Road, Madison, WI 53719

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

B. INFORMATION ABOUT OFFERING

1. Has the issuer sold, or does the issuer intend to sell, to non accredited investors in this offering? Yes No
 Answer also in Appendix, Column 2, if filing under ULOE.
2. What is the minimum investment that will be accepted from any individual? \$14,881,878
3. Does the offering permit joint ownership of a single unit? Yes No
4. Enter the information requested for each person who has been or will be paid or given, directly or indirectly, any commission or similar remuneration for solicitation of purchasers in connection with sales of securities in the offering. If a person to be listed is an associated person or agent of a broker or dealer registered with the SEC and/or with a state or states, list the name of the broker or dealer. If more than five (5) persons to be listed are associated persons of such a broker or dealer, you may set forth the information for that broker or dealer only.

Full Name (Last name first, if individual)
 Robert W. Baird & Co. Inc.

Business or Residence Address (Number and Street, City, State, Zip Code)
 777 E. Wisconsin Avenue, Milwaukee, WI 53202

Name of Associated Broker or Dealer
 Robert W. Baird & Co. Inc.

- States in Which Person Listed Has Solicited or Intends to Solicit Purchasers
 (Check "All States" or check individual States) All States
- [AL] [AK] [AZ] [AR] [CA] [CO] [CT] [DE] [DC] [FL] [GA] [HI] [ID] [IL] [IN] [IA] [KS] [KY] [LA] [ME] [MD] [MA] [MI] [MN] [MS] [MO] [MT] [NE] [NV] [NH] [NJ] [NM] [NY] [NC] [ND] [OH] [OK] [OR] [PA] [RI] [SC] [SD] [TN] [TX] [UT] [VT] [VA] [WA] [WV] [WI] [WY] [PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

- States in Which Person Listed Has Solicited or Intends to Solicit Purchasers
 (Check "All States" or check individual States) All States
- [AL] [AK] [AZ] [AR] [CA] [CO] [CT] [DE] [DC] [FL] [GA] [HI] [ID] [IL] [IN] [IA] [KS] [KY] [LA] [ME] [MD] [MA] [MI] [MN] [MS] [MO] [MT] [NE] [NV] [NH] [NJ] [NM] [NY] [NC] [ND] [OH] [OK] [OR] [PA] [RI] [SC] [SD] [TN] [TX] [UT] [VT] [VA] [WA] [WV] [WI] [WY] [PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

- States in Which Person Listed Has Solicited or Intends to Solicit Purchasers
 (Check "All States" or check individual States) All States
- [AL] [AK] [AZ] [AR] [CA] [CO] [CT] [DE] [DC] [FL] [GA] [HI] [ID] [IL] [IN] [IA] [KS] [KY] [LA] [ME] [MD] [MA] [MI] [MN] [MS] [MO] [MT] [NE] [NV] [NH] [NJ] [NM] [NY] [NC] [ND] [OH] [OK] [OR] [PA] [RI] [SC] [SD] [TN] [TX] [UT] [VT] [VA] [WA] [WV] [WI] [WY] [PR]

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

1. Enter the aggregate offering price of securities included in this offering and the total amount already sold. Enter "0" if answer is "none" or "zero". If the transaction is an exchange offering, check this box and indicate in the columns below the amounts of the securities offered for exchange and already exchanged.

Type of Security	Aggregate Offering Price	Amount Already Sold
Debt	\$ _____	\$ _____
Equity.....	\$ _____	\$ _____
<input type="checkbox"/> Common <input type="checkbox"/> Preferred		
Convertible Securities (including warrants).....	\$ 14,881,878	\$ 14,881,878
Partnership Interests	\$ _____	\$ _____
Other (Specify _____)	\$ _____	\$ _____
Total.....	\$ 14,881,878	\$ 14,881,878

Answer also in Appendix, Column 3, if filing under ULOE.

2. Enter the number of accredited and non-accredited investors who have purchased securities in this offering and the aggregate dollar amounts of their purchases. For offerings under Rule 504, indicate the number of persons who have purchased securities and the aggregate dollar amount of their purchases on the total line. Enter "0" if answer is "none" or "zero."

.....	Number Investors	Aggregate Dollar Amount of Purchases
Accredited Investors	1	\$ 14,881,878
Non-accredited Investors.....	_____	\$ _____
Total (for filings under Ruler 504 only)	_____	\$ _____

Answer also in Appendix, Column 4, if filing under ULOE.

3. If this filing is for an offering under Rule 504 or 505, enter the information requested for all securities sold by the issuer, to date, in offerings of the types indicated, in the twelve (12) months prior to the first sale of securities in this offering. Classify securities by type listed in Part C - Question 1.

Type of offering	Type of Security	Dollar Amount Sold
Rule 505	_____	\$ _____
Regulation A.....	_____	\$ _____
Rule 504	_____	\$ _____
Total.....	_____	\$ _____

4. a. Furnish a statement of all expenses in connection with the issuance and distribution of the securities in this offering. Exclude amounts relating solely to organization expenses of the issuer. The information may be given as subject to future contingencies. If the amount of an expenditure is not known, furnish an estimate and check the box to the left of the estimate.

Transfer Agent's Fees	<input type="checkbox"/>	\$ _____
Printing and Engraving Costs	<input type="checkbox"/>	\$ _____
Legal Fees	<input checked="" type="checkbox"/>	\$ 75,000
Accounting Fees	<input type="checkbox"/>	\$ _____
Engineering Fees.....	<input type="checkbox"/>	\$ _____
Sales Commissions (specify finders' fees separately).....	<input type="checkbox"/>	\$ 0
Other Expenses (identify) <u>Placement Agent and Advisors</u>	<input checked="" type="checkbox"/>	\$ 744,094
Total.....	<input checked="" type="checkbox"/>	\$ 819,094

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

b. Enter the difference between the aggregate offering price given in response to Part C - Question 1 and total expenses furnished in response to Part C - Question 4.a. This difference is the "adjusted gross proceeds to the issuer."

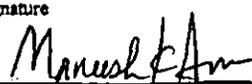
\$ 14,062,784

5. Indicate below the amount of the adjusted gross proceeds to the issuer used or proposed to be used for each of the purposes shown. If the amount for any purpose is not known, furnish an estimate and check the box to the left of the estimate. The total of the payments listed must equal the adjusted gross proceeds to the issuer set forth in response to Part C - Question 4.b above.

	Payments to Officers, Directors, & Affiliates	Payments To Others
Salaries and fees	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Purchase of real estate	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Purchase, rental or leasing and installation of machinery and equipment	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Construction or leasing of plant buildings and facilities	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Acquisition of other business (including the value of securities involved in this offering that may be used in exchange for the assets or securities of another issuer pursuant to a merger)	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Repayment of indebtedness	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Working capital	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Other (specify): <u>General Corporate Purposes</u>	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ <u>14,062,784</u>
.....	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
.....	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Column Totals	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ <u>14,062,784</u>
Total Payments Listed (column totals added)	<input type="checkbox"/> \$ <u>14,062,784</u>	

D. FEDERAL SIGNATURE

The issuer has duly caused this notice to be signed by the undersigned duly authorized person. If this notice is filed under Rule 505, the following signature constitutes an undertaking by the issuer to furnish to the U.S. Securities and Exchange Commission, upon written request of its staff, the information furnished by the issuer to any non-accredited investor pursuant to paragraph (b)(2) of Rule 502.

Issuer (Print or Type) Third Wave Technologies, Inc.	Signature 	Date 12/28/06
Name of Signer (Print or Type) Maneesh Arora	Title of Signer (Print or Type) Chief Financial Officer	

ATTENTION
Intentional misstatements or omissions of fact constitute federal criminal violations. (See 18 U.S.C. 1001.)