MELLON FINANCIAL CORP Form SC 13G

February 14, 2007

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No.)

NAME OF ISSUER: INOVIO BIOMEDICAL CORP. TITLE OF CLASS OF SECURITIES: Common CUSIP NUMBER: 45773H102 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) CUSIP NO. 45773H102 MELLON FINANCIAL CORPORATION Names of Reporting Persons SS or IRS Identification Nos. Of Above Person IRS No. 25-1233834 (2) Check the Appropriate Box if a Member of a Group (See Instructions) (a) (b) (b) (3) SEC use only (4) Citizenship or Place of Organization Pennsylvania Number of Shares (5) Sole Voting Power 1,935,130 Beneficially Owned by Each (6) Shared Voting Power 0 Reporting Person With (7) Sole Dispositive Power 1,935,130 (8) Shared Dispositive Power Aggregate Amount Beneficially Owned by Each Reporting Person 1,935,130 (9) (10) Check if the Aggregate Amount in Row (9) Excludes Certain Shares (see Instructions) (11) Percent of Class Represented by Amount in Row (9) 5.44% (12) Type of Reporting Person (See Instructions)

CUSIP NO. 45773H102

(1) Names of Reporting Persons MBC INVESTMENTS CORPORATION

| | SS or IRS Identification Nos. Of Above Person IRS No. 51-0301132 | | | | | | |
|---|--|----------------------------|-------------------------|---------------|-----------|-------|--|
| (2) | Check the Appropriate Box if a Member of a Group (See Instructions) (a) () (b) () | | | | | | |
| (3) | SEC use only | | | | | | |
| (4) | Citizenship or Place of Organization Delaware | | | | | | |
| Benef: Owned | r of Shares icially by Each ting Person | (5) Sole Voting Power | | er | 1,935,130 | | |
| | | (6) | (6) Shared Voting Power | | | 0 | |
| | | (7) Sole Dispositive Power | | | 1,935,1 | 30 | |
| | | (8) | Shared Dispositi | ve Power | | 0 | |
| (9) | Aggregate Amount Benef | icial | ly Owned by Each | Reporting Pe | rson 1,93 | 5,130 | |
| (10) | Check if the Aggregate Shares (see Instruction | | nt in Row (9) Exc | cludes Certai | n (|) | |
| (11) | Percent of Class Repre | sente | d by Amount in Ro | w (9) | 5.44% | | |
| (12) | Type of Reporting Person | on (S | ee Instructions) | | HC | | |
| | | | | | | | |
| CUSIP | NO. 45773H102 | | | | | | |
| (1) | Names of Reporting Persons NEPTUNE LLC SS or IRS Identification Nos. Of Above Person IRS No. | | | | | | |
| (2) | Check the Appropriate Box if a Member of a Group (See Instructions) (a) () (b) () | | | | | | |
| (3) | SEC use only | | | | | | |
| (4) | Citizenship or Place o | f Org | anization | | Delawar | е | |
| | r of Shares icially by Each ting Person | (5) | Sole Voting Powe | r | 1,935,1 | 30 | |
| Owned | | (6) | Shared Voting Po | wer | (| | |
| | | (7) | Sole Dispositive | Power | 1,935,1 | 30 | |
| | | (8) | Shared Dispositi | ve Power | | 0 | |
| (9) | Aggregate Amount Benef | icial | ly Owned by Each | Reporting Pe | rson 1,93 | 5,130 | |
| (10) | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (see Instructions) () | | | | | | |
| (11) | Percent of Class Represented by Amount in Row (9) 5.44% | | | | | | |
| (12) Type of Reporting Person (See Instructions) HC | | | | | | | |
| | | | | | | | |
| CUSIP | NO. 45773H102 | | | | | | |
| (1) | Names of Reporting Persons MELLON INTERNATIONAL LIMITED | | | | ED | | |

| | 3 3 | | | | | |
|---|---|-------------------------|--------------------------|-------------|-----------------|--|
| | SS or IRS Identification Nos. Of Above Person IRS No. 98-0464992 | | | | | |
| (2) | Check the Appropriate Box if a Member of a Group (See Instructions) (a) () (b) () | | | | | |
| (3) | SEC use only | | | | | |
| (4) | Citizenship or Place of Organization London | | | | | |
| Number of Shares Beneficially Owned by Each | | (5) Sole Voting Power | | 1,935,130 | | |
| | | (6) Shared Voting Power | | | 0 | |
| With | ting Person | (7) Sole | 1,935,1 | 1,935,130 | | |
| | | (8) Shar | ed Dispositive Power | | 0 | |
| (9) | Aggregate Amount Benef | cially Ow | ned by Each Reporting | Person 1,93 | 35,130 | |
| (10) | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (see Instructions) () | | | | | |
| (11) | Percent of Class Repre | ented by | Amount in Row (9) | 5.44% | | |
| (12) | Type of Reporting Pers | on (See In | structions) | НС | | |
| | | | | | | |
| CUSIP NO. 45773H102 | | | | | | |
| (1) |) Names of Reporting Persons NEWTON MANAGEMENT LIMITED SS or IRS Identification Nos. Of Above Person IRS No. 98-0196145 | | | | | |
| (2) | Check the Appropriate Box if a Member of a Group (See Instructions) (a) () (b) () | | | | | |
| (3) | SEC use only | | | | | |
| (4) | Citizenship or Place of Organization London | | | | | |
| | | (5) Sole |) Sole Voting Power | | 1,935,130 | |
| Owned | Ficially I by Each Sting Person | (6) Shar | ed Voting Power | | 0 | |
| Repor With | | (7) Sole |) Sole Dispositive Power | | 1,935,130 | |
| | | (8) Shar | ed Dispositive Power | | 0 | |
| (9) | Aggregate Amount Benef | cially Ow | ned by Each Reporting | Person 1,93 | 35 , 130 | |
| (10) | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (see Instructions) () | | | | | |
| (11) | Percent of Class Represented by Amount in Row (9) 5.44% | | | | | |
| (12) | (12) Type of Reporting Person (See Instructions) HC | | | | | |
| | | | | | | |
| CUSIP | NO. 45773H102 | | | | | |
| (1) | Names of Reporting Persons NEWTON INVESTMENT MANAGEMENT LIMITED | | | | | |

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| | SS or | IRS Identification | on No: | s. Of Above | Person IRS | No. 98-019 | 96228 | |
|----------------|--|--|-------------------|--|----------------|---------------------|-----------|--|
| (2) | Check the Appropriate Box if a Member of a Group (See Instructions) (a) () (b) () | | | | | | | |
| (3) | SEC u | se only | | | | | | |
| (4) | Citiz | enship or Place o | f Orga | anization | | 1 | London | |
| Numbe | r of S | | (5) | Sole Voting Power | | 1,935,130 | | |
| Owned | icially by Each ting Person | ch | (6) Shared Voting | | ing Power | | 0 | |
| Report With | | erson | (7) | Sole Dispo | sitive Power | 1,93 | 35,130 | |
| | | | (8) | Shared Dis | positive Power | | 0 | |
| (9) | Aggre | gate Amount Benef | icial | ly Owned by | Each Reportin | g Person 1 | 1,935,130 | |
| (10) | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (see Instructions) () | | | | | |) | |
| (11) | Perce | nt of Class Repre | sente | d by Amount | in Row (9) | 5.44 | 18 | |
| (12) |) Type of Reporting Person (See Instructions) IA | | | | | | | |
| | | SECUR. | | UNITED ST AND EXCHAN ington, D.C | GE COMMISSION | | | |
| | | | | SCHEDULE | | | | |
| | | (Under the | Secu | | Exchange Act o | f 1934) | | |
| Item | 1(a) | Name of Issuer: | INOVI | O BIOMEDICA | L CORP. | | | |
| Item | tem 1(b) Address of Issuer's Principal Executive Offices: 11494 SORRENTO VALLEY RD. SAN DIEGO, CA 92121-1318 | | | | | | | |
| Item : | 2(a) Name of Person Filing: Mellon Financial Corporation and any other reporting person(s) identified on the second part of the cover page(s) and Exhibit I. | | | | | | | |
| Item : | 2(b) Address of Principal Business Office, or if None, Residence: c/o Mellon Financial Corporation One Mellon Center Pittsburgh, Pennsylvania 15258 (for all reporting persons) | | | | | orporation ia 15258 | | |
| Item : | 2(c) | Citizenship: | | | See cover pag | e and Exh | ibit I. | |
| Item : | 2 (d) | (d) Title of Class of Securities: Common | | | | | | |
| Item : | 2(e) CUSIP Number: 45773H102 | | | | | | | |
| Item | 3 See Item 12 of cover page(s) ("Type of Reporting Person") for each reporting person. | | | | | | | |

- BK = Bank as defined in Section 3(a)(6) of the Act
- IV = Investment Company registered under Section 8 of the Investment Company Act of 1940
- EP = Employee Benefit Plan, Pension Fund which is subject to
 the provisions of the Employee Retirement Income
 Security Act of 1974 or Endowment Fund; see
 Section 240.13-d(1)(b)(1)(ii)(F)
- HC = Parent Holding Company, in accordance with Section 240.13-d(1)(b)(1)(ii)(G)

The amount beneficially owned includes, where appropriate, securities not outstanding which are subject to options, warrants, rights or conversion privileges that are exercisable within 60 days. The securities reported herein as beneficially owned may exclude securities of the issuer with respect to which voting and/or dispositive power is exercised by subsidiaries of Mellon Financial Corporation, or departments or units thereof, independently from the exercise of those powers over the securities reported herein. See SEC Release No. 34-39538 (January 12, 1998). The filing of this Schedule 13G shall not be construed as an admission that Mellon Financial Corporation, or its direct or indirect subsidiaries, including Mellon Bank, N.A., are for the purposes of Section 13(d) or 13(g) of the Act, the beneficial owners of any securities covered by this Schedule 13G.

The following information applies if checked: () Mellon Bank, N.A. is the trustee of the issuer's employee benefit plan (the "Plan"), which is subject to ERISA. The securities reported include all shares held of record by Mellon Bank, N.A. as trustee of the Plan which have not been allocated to the individual accounts of employee participants in the Plan. The reporting person, however, disclaims beneficial ownership of all shares that have been allocated to the individual accounts of employee participants in the Plan for which directions have been received and followed.

Item 5 Ownership of Five Percent or Less of a Class: If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following ()

Item 6 Ownership of More than Five Percent on Behalf of Another Person: All of the securities are beneficially owned by Mellon Financial Corporation and direct or indirect subsidiaries in their various fiduciary capacities. As a result, another entity in every instance is entitled to dividends or proceeds of sale. The number of individual accounts holding an interest of 5% or more is ()

- Item 7 Identification and Classification of the Subsidiary Which Acquired
 the Security Being Reported by the Parent Holding Company:
 See Exhibit I.
- Item 8 Identification and Classification of Members of the Group: N/A
- Item 9 Notice of Dissolution of Group: N/A

Item 10 Certification: By signing below I certify that, to the best of my 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 and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired and are not held in connection with or as a participant in any transaction having such purpose or effect.

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. This filing is signed by Mellon Financial Corporation on behalf of all reporting entities pursuant to Rule 13d-1(f)(1) promulgated under the Securities and Exchange Act of 1934, as amended.

Date: February 12, 2007

MELLON FINANCIAL CORPORATION

By: /s/ DAVID BELSTERLING

David Belsterling
First Vice President
Mellon Bank, N.A.
Attorney-In-Fact for
Mellon Financial Corporation

Each of the undersigned hereby authorizes Mellon Financial Corporation, in accordance with Rule 13d-1(f)(1) under the Securities Exchange Act of 1934, as amended (the "1934 Act"), to file, on behalf of the undersigned, any statement required to be signed by the undersigned, on Schedule 13G pursuant to Rule 13d-1 under the 1934 Act and any amendment thereto pursuant to Rule 13d-2 under the 1934 Act.

Each of the undersigned represents that it is individually eligible to use Schedule 13G, and acknowledges its responsibility for the timely filing of such Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein. However, each of the undersigned is not responsible for the completeness or accuracy of the information concerning the other persons making the filing on Schedule 13G unless such undersigned knows or has reason to believe that such information is inaccurate.

Date: February 12, 2007

MBC INVESTMENTS CORPORATION

By: /s/ DAVID BELSTERLING

David Belsterling
First Vice President,
Mellon Bank, N.A.
Attorney-In-Fact for
MBC Investments Corporation

Date: February 12, 2007

NEPTUNE LLC

By: /s/ DAVID BELSTERLING

David Belsterling First Vice President, Mellon Bank, N.A. Attorney-In-Fact for

Neptune LLC

Date: February 12, 2007

MELLON INTERNATIONAL LIMITED

By: /s/ DAVID BELSTERLING

David Belsterling First Vice President, Mellon Bank, N.A. Attorney-In-Fact for

Mellon International Limited

Date: February 12, 2007

NEWTON MANAGEMENT LIMITED

By: /s/ DAVID BELSTERLING

David Belsterling
First Vice President,
Mellon Bank, N.A.
Attorney-In-Fact for
Newton Management Limited

Date: February 12, 2007

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /s/ DAVID BELSTERLING

David Belsterling First Vice President, Mellon Bank, N.A. Attorney-In-Fact for

Newton Investment Management Limited

EXHIBIT I

The shares reported on the attached Schedule 13G are beneficially owned by the following direct or indirect subsidiaries of Mellon Financial Corporation, as marked(X):

(A) The Item 3 classification of each of the subsidiaries listed below is Item 3(b) Bank as defined in Section 3(a)(6) of the Act.

- () Mellon Bank, N.A. (parent holding company of MMIP, LLC; Mellon Trust of Delaware, National Association)
- () Mellon Trust of New England, National Association (parent holding company of Equity (DE) Trust 1 and Equity (DE) Trust 2)
- () Mellon Private Trust Company, National Association
- () Mellon Trust of California
- () Mellon Trust of Delaware, National Association
- () Mellon Trust of New York, LLC
- () Mellon Trust of Washington
- (B) The Item 3 classification of each of the subsidiaries listed below is "Item 3(e) Investment Advisor registered under Section 203 of the Investment Advisors Act of 1940."
 - () Boston Safe Advisors, Inc.
 - () The Dreyfus Corporation (parent holding company of Dreyfus Service Corporation)
 - () Dreyfus Service Corporation (parent holding company Founders Asset Management LLC)
 - () Founders Asset Management LLC
 - () Franklin Portfolio Associates LLC
 - () Laurel Capital Advisors, LLP
 - () Mellon Capital Management Corporation
 - () Mellon Equity Associates, LLP
 - () Mellon Global Investments Limited
 - () Mellon Hedge Advisors, LLC
 - () Newton Capital Management Limited
 - (X) Newton Investment Management Limited
 - () Standish Mellon Asset Management Company LLC
 - () The Boston Company Asset Management, LLC
 - () Walter Scott & Partners Limited
- (C) The Item 3 classification of each of the legal entities listed below is "Item 3(g) Parent Holding Company, in accordance with Section 240.13d-I(b)(ii)(G)."
 - (X) Mellon Financial Corporation
 - () MMIP, LLC (parent holding company to Laurel Capital Advisors, LLP; Mellon Equity Associates, LLP)
 - () The Boston Company, Inc. (parent holding company of Mellon Private Trust Company, National Association; Mellon Trust of California; Mellon Trust of New York, LLC; Mellon Trust of Washington)
 - () Equity (MA) Trust (parent holding company of Boston Safe Advisors, Inc.; Mellon Hedge Advisors, LLC)
 - () Equity (DE) Trust 1 and Equity (DE) Trust 2 (parent holding companies of Equity (MA) Trust)
 - (X) Newton Management Limited (parent holding company of Newton Capital Management Limited; Newton Investment Management Limited)
 - (X) Mellon International Limited (parent holding company of Newton Management Limited; Walter Scott & Partners Limited)
 - (X) Neptune LLC (parent holding company of Mellon International Limited)
 - (X) MBC Investments Corporation (parent holding company of Mellon Capital Management Corporation; Neptune LLC)
 - () Fixed Income (MA) Trust (parent holding company of Franklin Portfolio Associates, LLC; The Boston Company Asset Management, LLC; Standish Mellon Asset Management Company LLC)
 - () Fixed Income (DE) Trust (parent holding company of Fixed Income(MA) Trust)

NOTE: ALL OF THE LEGAL ENTITIES LISTED UNDER (A) AND (B) ABOVE ARE DIRECT OR INDIRECT SUBSIDIARIES OF MELLON FINANCIAL CORPORATION. BENEFICIAL OWNERSHIP OF

MORE THAN FIVE PERCENT OF THE CLASS BY ANY ONE OF THE SUBSIDIARIES OR INTERMEDIATE PARENT HOLDING COMPANIES LISTED ABOVE IS REPORTED ON A JOINT REPORTING PERSON PAGE FOR THAT SUBSIDIARY ON THE ATTACHED SCHEDULE 13G AND IS INCORPORATED IN THE TOTAL PERCENT OF CLASS REPORTED ON MELLON FINANCIAL CORPORATION'S REPORTING PERSON PAGE. (DO NOT ADD THE SHARES OR PERCENT OF CLASS REPORTED ON EACH JOINT REPORTING PERSON PAGE ON THE ATTACHED SCHEDULE 13G TO DETERMINE THE TOTAL PERCENT OF CLASS FOR MELLON FINANCIAL CORPORATION).