

NEXTEST SYSTEMS CORP

Form SC 13D

January 14, 2008

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934

Nextest Systems Corporation
(Name of Issuer)

Common Stock
(Title of Class of Securities)

_____653339101_____

(CUSIP Number)

James E. McKee
GAMCO Investors, Inc.
One Corporate Center
Rye, New York 10580-1435
(914) 921-5294

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

_____ January 4, 2008 _____

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box .

CUSIP No. 653339101

- 1 Names of reporting persons
 I.R.S. identification nos. of above persons (entities only)
 Gabelli Funds, LLC I.D. No. 13-4044523
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS)(a)
 (b)
- 3 Sec use only
- 4 Source of funds (SEE INSTRUCTIONS)
 00-Funds of investment advisory clients
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization
 New York

| | | |
|--------------|-----|--------------------------|
| Number Of | : 7 | Sole voting power |
| Shares | : | 1,012,600 (Item 5) |
| Beneficially | : | |
| Owned | : | |
| By Each | : 8 | Shared voting power |
| Reporting | : | None |
| Person | : | |
| With | : | |
| | : 9 | Sole dispositive power |
| | : | 1,012,600 (Item 5) |
| | : | |
| | : | |
| | :10 | Shared dispositive power |
| | : | None |
| | : | |
| | : | |
- 11 Aggregate amount beneficially owned by each reporting person
 1,012,600 (Item 5)
- 12 Check box if the aggregate amount in row (11) excludes certain shares
 (SEE INSTRUCTIONS)
- 13 Percent of class represented by amount in row (11)
 5.65%
- 14 Type of reporting person (SEE INSTRUCTIONS)
 IA

CUSIP No. 653339101

1 Names of reporting persons
 I.R.S. identification nos. of above persons (entities only)
 GAMCO Asset Management Inc. I.D. No. 13-4044521

2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS)(a)
 (b)

3 Sec use only

4 Source of funds (SEE INSTRUCTIONS)
 00-Funds of investment advisory clients

5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)

6 Citizenship or place of organization

New York

| | | | |
|--------------|---|----|--------------------------|
| Number Of | : | 7 | Sole voting power |
| Shares | : | | 262,000 (Item 5) |
| Beneficially | : | | |
| Owned | : | | |
| By Each | : | 8 | Shared voting power |
| Reporting | : | | None |
| Person | : | | |
| With | : | | |
| | : | 9 | Sole dispositive power |
| | : | | 290,000 (Item 5) |
| | : | | |
| | : | | |
| | : | 10 | Shared dispositive power |
| | : | | None |
| | : | | |
| | : | | |

11 Aggregate amount beneficially owned by each reporting person
 290,000 (Item 5)

12 Check box if the aggregate amount in row (11) excludes certain shares
 (SEE INSTRUCTIONS)

13 Percent of class represented by amount in row (11)
 1.62%

14 Type of reporting person (SEE INSTRUCTIONS)
 IA, CO

CUSIP No. 653339101

- 1 Names of reporting persons
 I.R.S. identification nos. of above persons (entities only)
 Gabelli Securities, Inc. I.D. No. 13-3379374
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS)(a)
 (b)
- 3 Sec use only
- 4 Source of funds (SEE INSTRUCTIONS)
 00-Client Funds
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization
 Delaware
- | | | | |
|--------------|---|----|--------------------------|
| Number Of | : | 7 | Sole voting power |
| Shares | : | | 269,961 (Item 5) |
| Beneficially | : | | |
| Owned | : | | |
| By Each | : | 8 | Shared voting power |
| Reporting | : | | None |
| Person | : | | |
| With | : | | |
| | : | 9 | Sole dispositive power |
| | : | | 269,961 (Item 5) |
| | : | | |
| | : | | |
| | : | 10 | Shared dispositive power |
| | : | | None |
| | : | | |
| | : | | |
- 11 Aggregate amount beneficially owned by each reporting person
 269,961 (Item 5)
- 12 Check box if the aggregate amount in row (11) excludes certain shares
 (SEE INSTRUCTIONS)
- 13 Percent of class represented by amount in row (11)
 1.51%
- 14 Type of reporting person (SEE INSTRUCTIONS)
 HC, CO, IA

CUSIP No. 653339101

- 1 Names of reporting persons
 I.R.S. identification nos. of above persons (entities only)
 GGCP,
 Inc. I.D.
 No. 13-3056041
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS)(a)
 (b)
- 3 Sec use only
- 4 Source of funds (SEE INSTRUCTIONS)
 None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization
 New York
- | | | |
|--------------|-----|--------------------------|
| Number Of | : 7 | Sole voting power |
| Shares | : | None |
| Beneficially | : | |
| Owned | : | |
| By Each | : 8 | Shared voting power |
| Reporting | : | None |
| Person | : | |
| With | : | |
| | : 9 | Sole dispositive power |
| | : | None |
| | : | |
| | : | |
| | :10 | Shared dispositive power |
| | : | None |
| | : | |
| | : | |
- 11 Aggregate amount beneficially owned by each reporting person
 None
- 12 Check box if the aggregate amount in row (11) excludes certain shares
 (SEE INSTRUCTIONS) X
- 13 Percent of class represented by amount in row (11)
 0.00%
- 14 Type of reporting person (SEE INSTRUCTIONS)
 HC, CO

CUSIP No. 653339101

- 1 Names of reporting persons
 I.R.S. identification nos. of above persons (entities only)
 GAMCO Investors,
 Inc. I.D.
 No. 13-4007862
 Check the appropriate box if a member of a group (SEE INSTRUCTIONS)(a)
 (b)
- 3 Sec use only
- 4 Source of funds (SEE INSTRUCTIONS)
 None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization
 New York
 Number Of : 7 Sole voting power
 Shares : None
 Beneficially :
 Owned :
 By Each : 8 Shared voting power
 Reporting : None
 Person :
 With :
 : 9 Sole dispositive power
 : None
 :
 :
 :
 : 10 Shared dispositive power
 : None
 :
 :
- 11 Aggregate amount beneficially owned by each reporting person
 None
- 12 Check box if the aggregate amount in row (11) excludes certain shares
 (SEE INSTRUCTIONS) X
- 13 Percent of class represented by amount in row (11)
 0.00%
- 14 Type of reporting person (SEE INSTRUCTIONS)
 HC, CO

CUSIP No. 653339101

- 1 Names of reporting persons
I.R.S. identification nos. of above persons (entities only)
Mario J. Gabelli
- 2 Check the appropriate box if a member of a group (SEE INSTRUCTIONS)
(a)(a)
(b)
- 3 Sec use only
- 4 Source of funds (SEE INSTRUCTIONS)
None
- 5 Check box if disclosure of legal proceedings is required pursuant to items 2 (d) or 2 (e)
- 6 Citizenship or place of organization
USA
- | | | | |
|--------------|---|----|--------------------------|
| Number Of | : | 7 | Sole voting power |
| Shares | : | | None |
| Beneficially | : | | |
| Owned | : | | |
| By Each | : | 8 | Shared voting power |
| Reporting | : | | None |
| Person | : | | |
| With | : | | |
| | : | 9 | Sole dispositive power |
| | : | | None |
| | : | | |
| | : | | |
| | : | 10 | Shared dispositive power |
| | : | | None |
| | : | | |
| | : | | |
- 11 Aggregate amount beneficially owned by each reporting person
None
- 12 Check box if the aggregate amount in row (11) excludes certain shares (SEE INSTRUCTIONS)
- 13 Percent of class represented by amount in row (11)
0.00%
- 14 Type of reporting person (SEE INSTRUCTIONS)
IN

7

Item 1. Security and Issuer

The class of equity securities to which this statement on Schedule 13D relates is the Common Stock of Nextest Systems Corporation (the "Issuer"), a Delaware corporation with principal offices located at 875 Embedded Way, San Jose, California 95138.

Item 2. Identity and Background

This statement is being filed by Mario J. Gabelli ("Mario Gabelli") and various entities which he directly or indirectly controls or for which he acts as chief investment officer. These entities, except for LICT Corporation ("LICT"), engage in various aspects of the securities business, primarily as investment adviser to various institutional and individual clients, including registered investment companies and pension plans, and as general partner of various private investment partnerships. Certain of these entities may also make investments for their own accounts.

The foregoing persons in the aggregate often own beneficially more than 5% of a class of a particular issuer. Although several of the foregoing persons are treated as institutional investors for purposes of reporting their beneficial ownership on the short-form Schedule 13G, the holdings of those who do not qualify as institutional investors may exceed the 1% threshold presented for filing on Schedule 13G or implementation of their investment philosophy may from time to time require action which could be viewed as not completely passive. In order to avoid any question as to whether their beneficial ownership is being reported on the proper form and in order to provide greater investment flexibility and administrative uniformity, these persons have decided to file their beneficial ownership reports on the more detailed Schedule 13D form rather than on the short-form Schedule 13G and thereby to provide more expansive disclosure than may be necessary.

(a), (b) and (c) - This statement is being filed by one or more of the following persons: GGCP, Inc. formerly known as Gabelli Group Capital Partners, Inc. ("GGCP"), GAMCO Investors, Inc. formerly known as Gabelli Asset Management Inc. ("GBL"), Gabelli Funds, LLC ("Gabelli Funds"), GAMCO Asset Management Inc. formerly known as GAMCO Investors, Inc. ("GAMCO"), Gabelli Advisers, Inc. ("Gabelli Advisers"), Gabelli Securities, Inc. ("GSI"), Gabelli & Company, Inc. ("Gabelli & Company"), MJG Associates, Inc. ("MJG Associates"), Gabelli Foundation, Inc. ("Foundation"), Mario Gabelli, and LICT. Those of the foregoing persons signing this Schedule 13D are hereafter referred to as the "Reporting Persons".

GGCP makes investments for its own account and is the parent company of GBL. GBL, a public company listed on the New York Stock Exchange, is the parent company for a variety of companies engaged in the securities business, including those named below.

GAMCO, a wholly-owned subsidiary of GBL, is an investment adviser registered under the Investment Advisers Act of 1940, as amended ("Advisers Act"). GAMCO is an investment manager providing discretionary managed account services for employee benefit plans, private investors, endowments, foundations and others.

GSI, a majority-owned subsidiary of GBL, is an investment adviser registered under the Advisers Act and serves as a general partner or investment manager to limited partnerships and offshore investment companies. As a part of its business, GSI may purchase or sell securities for its own account. It is the immediate parent of Gabelli & Company.

GSI is the general partner or investment manager of a number of funds or partnerships, including Gabelli Associates Fund, Gabelli Associates Fund II, Gabelli Associates Limited, ALCE Partners, L.P., and Gabelli Multimedia Partners, L.P. GSI and Marc Gabelli own 45% and 55%, respectively, of Gabelli Securities International Limited ("GSIL").

GSIL provides investment advisory services to offshore funds and accounts. GSIL is an investment advisor of Gabelli International Gold Fund Limited, Gabelli European Partners, Ltd., and Gabelli Global Partners, Ltd.

Gabelli & Company, a wholly-owned subsidiary of GSI, is a broker-dealer registered under the Securities Exchange Act of 1934, as amended ("1934 Act"), which as a part of its business regularly purchases and sells securities for its own account.

Gabelli Funds, a wholly owned subsidiary of GBL, is a limited liability company. Gabelli Funds is an investment adviser registered under the Advisers Act which presently provides discretionary managed account services for The Gabelli Equity Trust Inc., The Gabelli Asset Fund, The GAMCO Growth Fund, The Gabelli Convertible and Income Securities Fund Inc., The Gabelli Value Fund Inc., The Gabelli Small Cap Growth Fund, The Gabelli Equity Income Fund, The Gabelli ABC Fund, The GAMCO Global Telecommunications Fund, GAMCO Gold Fund, Inc., The

Gabelli Global Multimedia Trust Inc., The GAMCO Global Convertible Securities Fund, Gabelli Capital Asset Fund, GAMCO International Growth Fund, Inc., The GAMCO Global Growth Fund, The Gabelli Utility Trust, The GAMCO Global Opportunity Fund, The Gabelli Utilities Fund, The Gabelli Blue Chip Value Fund, The GAMCO Mathers Fund, The Gabelli Woodland Small Cap Value Fund, The Comstock Capital Value Fund, The Comstock Strategy Fund, The Gabelli Dividend and Income Trust, The Gabelli Global Utility & Income Trust, The Gabelli Global Gold, Natural Resources, & Income Trust, The Gabelli Global Deal Fund, and The Gabelli Healthcare & Wellness Rx Trust (collectively, the “Funds”), which are registered investment companies.

Gabelli Advisers, a subsidiary of GBL, is an investment adviser which provides discretionary advisory services to The GAMCO Westwood Mighty Mitessm Fund, The GAMCO Westwood Income Fund and The GAMCO Westwood Small Cap Fund.

MJG Associates provides advisory services to private investment partnerships and offshore funds. Mario Gabelli is the sole shareholder, director and employee of MJG Associates. MJG Associates is the Investment Manager of Gabelli International Limited, Gabelli International II Limited, Gabelli Performance Partnership, and Gabelli Fund, LDC.

The Foundation is a private foundation. Mario Gabelli is the President, a Trustee and the Investment Manager of the Foundation.

LICT is a holding company with operating subsidiaries engaged primarily in the rural telephone industry. LICT actively pursues new business ventures and acquisitions. LICT makes investments in marketable securities to preserve capital and maintain liquidity for financing their business activities and acquisitions and are not engaged in the business of investing, reinvesting, or trading in securities. Mario J. Gabelli is a director, and substantial shareholder of LICT.

Mario Gabelli is the majority stockholder and Chief Executive Officer of GGCP and Chairman and Chief Executive Officer of GBL. GGCP is the majority shareholder of GBL. GBL, in turn, is the sole stockholder of GAMCO. GBL is also the majority stockholder of GSI and the largest shareholder of Gabelli Advisers. Gabelli & Company is a wholly-owned subsidiary of GSI.

The Reporting Persons do not admit that they constitute a group.

GGCP, GBL, GAMCO, and Gabelli & Company are New York corporations and GSI and Gabelli Advisers are Delaware corporations, each having its principal business office at One Corporate Center, Rye, New York 10580. Gabelli Funds is a New York limited liability company having its principal business office at One Corporate Center, Rye, New York 10580. MJG Associates is a Connecticut corporation having its principal business office at 140 Greenwich Avenue, Greenwich, CT 06830. The Foundation is a Nevada corporation having its principal offices at 165 West Liberty Street, Reno, Nevada 89501. LICT is a Delaware corporation having its principal place of business at 401 Theodore Fremd Avenue, Rye, New York 10580.

For information required by instruction C to Schedule 13D with respect to the executive officers and directors of the foregoing entities and other related persons (collectively, “Covered Persons”), reference is made to Schedule I annexed hereto and incorporated herein by reference.

(f) - Reference is made to Schedule I hereto.

Item 3. Source and Amount of Funds or Other Consideration

The Reporting Persons used an aggregate of approximately \$31,157,861 to purchase the Securities reported as beneficially owned in Item 5. GAMCO and Gabelli Funds used approximately \$5,761,073 and \$20,077,072, respectively, of funds that were provided through the accounts of certain of their investment advisory clients (and, in the case of some of such accounts at GAMCO, may be through borrowings from client margin accounts) in order to purchase the Securities for such clients. GSI used approximately \$5,319,716 of client funds to purchase the Securities reported by it.

Item 4. Purpose of Transaction

Each of the Reporting Persons has purchased and holds the Securities reported by it for investment for one or more accounts over which it has shared, sole, or both investment and/or voting power, for its own account, or both. The Reporting Persons, with the exception of Interactive, are engaged in the business of securities analysis and investment and pursue an investment philosophy of identifying undervalued situations. In pursuing this investment

philosophy, the Reporting Persons analyze the operations, capital structure and markets of companies in which they invest, including the Issuer, on a continuous basis through analysis of documentation and discussions with knowledgeable industry and market observers and with representatives of such companies (often at the invitation of management). The Reporting Persons do not believe they possess material inside information concerning the Issuer. As a result of these analytical activities one or more of the Reporting Persons may issue analysts reports, participate in interviews or hold discussions with third parties or with management in which the Reporting Person may suggest or take a position with respect to potential changes in the operations, management or capital structure of such companies as a means of enhancing shareholder values. Such suggestions or positions may relate to one or more of the transactions specified in clauses (a) through (j) of Item 4 of Schedule 13D including, without limitation, such matters as disposing of one or more businesses, selling the company or acquiring another company or business, changing operating or marketing strategies, adopting or not adopting, certain types of anti-takeover measures and restructuring the company's capitalization or dividend policy.

Each of the Reporting Persons intends to adhere to the foregoing investment philosophy with respect to the Issuer. However, none of the Reporting Persons intends to seek control of the Issuer or participate in the management of the Issuer, and any Reporting Person that is registered as an investment company under the 1940 Act will participate in such a transaction only following receipt of an exemption from the SEC under Rule 17d-1 under the 1940 Act, if required, and in accordance with other applicable law. In pursuing this investment philosophy, each Reporting Person will continuously assess the Issuer's business, financial condition, results of operations and prospects, general economic conditions, the securities markets in general and those for the Issuer's securities in particular, other developments and other investment opportunities, as well as the investment objectives and diversification requirements of its shareholders or clients and its fiduciary duties to such shareholders or clients. Depending on such assessments, one or more of the Reporting Persons may acquire additional Securities or may determine to sell or otherwise dispose of all or some of its holdings of Securities. Although the Reporting Persons share the same basic investment philosophy and although most portfolio decisions are made by or under the supervision of Mario Gabelli, the investment objectives and diversification requirements of various clients differ from those of other clients so that one or more Reporting Persons may be acquiring Securities while others are disposing of Securities.

With respect to voting of the Securities, the Reporting Persons have adopted general voting policies relating to voting on specified issues affecting corporate governance and shareholder values. Under these policies, the Reporting Persons generally vote all securities over which they have voting power in favor of cumulative voting, financially reasonable golden parachutes, one share one vote, management cash incentives and pre-emptive rights and against greenmail, poison pills, supermajority voting, blank check preferred stock and super-dilutive stock options. Exceptions may be made when management otherwise demonstrates superior sensitivity to the needs of shareholders. In the event that the aggregate voting position of all joint filers shall exceed 25% of the total voting position of the issuer then the proxy voting committees of each of the Funds shall vote their Fund's shares independently.

Each of the Covered Persons who is not a Reporting Person has purchased the Securities reported herein as beneficially owned by him for investment for his own account or that of one or more members of his immediate family. Each such person may acquire additional Securities or dispose of some or all of the Securities reported herein with respect to him.

Other than as described above, none of the Reporting Persons and none of the Covered Persons who is not a Reporting Person has any present plans or proposals which relate to or would result in any transaction, change or event specified in clauses (a) through (j) of Item 4 of Schedule 13D.

Item 5. Interest In Securities Of The Issuer

(a) The aggregate number of Securities to which this Schedule 13D relates is 1,572,561 shares, representing 8.77% of the approximately 17,923,656 shares outstanding as reported by the Issuer in its Form 10-Q for the quarterly period ended September 29, 2007. The Reporting Persons beneficially own those Securities as follows:

| Name | Shares of Common Stock | % of Class of Common |
|---------------|---------------------------|-------------------------|
| Gabelli Funds | 1,012,600 | 5.65% |

| | | |
|-------|---------|-------|
| GAMCO | 290,000 | 1.62% |
| GSI | 269,961 | 1.51% |

Mario Gabelli is deemed to have beneficial ownership of the Securities owned beneficially by each of the foregoing persons. GSI is deemed to have beneficial ownership of the Securities owned beneficially by Gabelli & Company. GBL and GGCP are deemed to have beneficial ownership of the Securities owned beneficially by each of the foregoing persons other than Mario Gabelli and the Foundation.

(b) Each of the Reporting Persons and Covered Persons has the sole power to vote or direct the vote and sole power to dispose or to direct the disposition of the Securities reported for it, either for its own benefit or for the benefit of its investment clients or its partners, as the case may be, except that (i) GAMCO does not have the authority to vote 28,000 of its reported shares, (ii) Gabelli Funds has sole dispositive and voting power with respect to the shares of the Issuer held by the Funds so long as the aggregate voting interest of all joint filers does not exceed 25% of their total voting interest in the Issuer and, in that event, the Proxy Voting Committee of each Fund shall respectively vote that Fund's shares, (iii) at any time, the Proxy Voting Committee of each such Fund may take and exercise in its sole discretion the entire voting power with respect to the shares held by such fund under special circumstances such as regulatory considerations, and (iv) the power of Mario Gabelli, GBL, and GGCP is indirect with respect to Securities beneficially owned directly by other Reporting Persons.

(c) Information with respect to all transactions in the Securities which were effected during the past sixty days or since the most recent filing on Schedule 13D, whichever is less, by each of the Reporting Persons and Covered Persons is set forth on Schedule II annexed hereto and incorporated herein by reference.

(d) The investment advisory clients of, or partnerships managed by, GAMCO, Gabelli Funds, Gabelli Advisers and MJG Associates have the sole right to receive and, subject to the notice, withdrawal and/or termination provisions of such advisory contracts and partnership arrangements, the sole power to direct the receipt of dividends from, and the proceeds of sale of, any of the Securities beneficially owned by such Reporting Persons on behalf of such clients or partnerships. Except as noted, no such client or partnership has an interest by virtue of such relationship that relates to more than 5% of the Securities.

(e) Not applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

The powers of disposition and voting of Gabelli Funds, Gabelli Advisers, GAMCO, GSI and MJG Associates with respect to Securities owned beneficially by them on behalf of their investment advisory clients, and of MJG Associates and GSI with respect to Securities owned beneficially by them on behalf of the partnerships which they directly or indirectly manage, are held pursuant to written agreements with such clients, partnerships and funds.

Item 7. Material to be Filed as an Exhibit

The following Exhibit A is attached hereto. The following Exhibit B is incorporated by reference to Exhibit A in the Amendment No. 2 to Schedule 13D of the Reporting Persons with respect to Lifecore Biomedical, Inc.

Exhibit A: Joint Filing Agreement

Exhibit B: Powers of Attorney to Peter D. Goldstein, Christopher J. Michailoff, James E. McKee and Douglas R. Jamieson from Mario J. Gabelli

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.

Dated: January 14, 2008

GGCP, INC.
MARIO J. GABELLI

By:/s/ James E. McKee
James E. McKee
Attorney-in-Fact

GAMCO INVESTORS, INC.
GABELLI FUNDS, LLC

GABELLI SECURITIES, INC.

By:/s/ James E. McKee
James E. McKee
Secretary or Assistant Secretary

GAMCO ASSET MANAGEMENT INC.

By:/s/ Douglas R. Jamieson
Douglas R. Jamieson
President and Chief Operating Officer

Schedule I

Information with Respect to Executive

Officers and Directors of the Undersigned

Schedule I to Schedule 13D is amended, in pertinent part, as follows:

The following sets forth as to each of the executive officers and directors of the undersigned: his name; his business address; his present principal occupation or employment and the name, principal business and address of any corporation or other organization in which such employment is conducted. Unless otherwise specified, the principal employer of each such individual is GAMCO Asset Management, Inc., Gabelli Funds, LLC, Gabelli Securities, Inc., Gabelli & Company, Inc., or GAMCO Investors, Inc., the business address of each of which is One Corporate Center, Rye, New York 10580, and each such individual identified below is a citizen of the United States. To the knowledge of the undersigned, during the last five years, no such person has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors), and no such person was a party to a civil proceeding of a judicial or administrative body of competent jurisdiction as a result of which he was or is subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities law or finding any violation with respect to such laws except as reported in Item 2(d) of this Schedule 13D.

GGCP, Inc.

Directors:

| | |
|------------------------|---|
| Vincent J. Amabile | Business Consultant |
| Mario J. Gabelli | Chief Executive Officer of GGCP, Inc., and GAMCO Investors, Inc.; Director/Trustee of all registered investment companies advised by Gabelli Funds, LLC; Chief Executive Officer of LICT Corporation. |
| Marc J. Gabelli | Chairman of LGL Corporation |
| Matthew R. Gabelli | Vice President – Trading Gabelli & Company, Inc. One Corporate Center Rye, New York 10580 |
| Charles C. Baum | Secretary & Treasurer |
| Douglas R. Jamieson | United Holdings Co., Inc. 2545 Wilkens Avenue Baltimore, MD 21223 See below |
| Joseph R. Rindler, Jr. | Business Consultant/former Chairman of GAMCO Asset Management Inc. |
| Fredric V. Salerno | Chairman; Former Vice Chairman and Chief Financial Officer Verizon Communications |
| Vincent Capurso | Vice President Taxes, Barnes & Noble, Inc. |
| Vincent S. Tese | Former Director GAMCO Investors, Inc. (see below) |
| Officers: | |
| Mario J. Gabelli | Chief Executive Officer and Chief Investment Officer |
| Michael G. Chieco | Chief Financial Officer, Secretary |

GAMCO Investors, Inc.

Directors:

| | |
|--------------------|--|
| Edwin L. Artzt | Former Chairman and Chief Executive Officer |
| Richard L. Bready | Procter & Gamble Company 900 Adams Crossing Cincinnati, OH 45202 Chairman and Chief Executive Officer Nortek, Inc. 50 Kennedy Plaza Providence, RI 02903 |
| Mario J. Gabelli | See above |
| John D. Gabelli | Senior Vice President |
| John C. Ferrara | Business Consultant |
| Eugene R. McGrath | Former Chairman and Chief Executive Officer Consolidated Edison, Inc. |
| Karl Otto Pohl (1) | Sal. Oppenheim jr. & Cie. Bockenheimer Landstrasse 20 D-6000 FRANKFURT AM MAIN Germany President & Chief Operating Officer Gray Television, Inc. 4370 Peachtree Road, NE Atlanta, GA 30319 Lawyer, Investment Adviser and Cable Television Executive |
| Robert S. Prather | |
| Vincent S. Tese | |

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c/o Bear Stearns & Company, Inc.
245 Park Avenue, 19th Floor
New York, NY 10167

Officers:

| | |
|---------------------|---|
| Mario J. Gabelli | Chairman and Chief Executive Officer |
| Douglas R. Jamieson | President and Chief Operating Officer |
| Henry G. Van der Eb | Senior Vice President |
| Diane LaPointe | Acting Co-Chief Financial Officer |
| Kieran Caterina | Acting Co-Chief Financial Officer |
| James E. McKee | Vice President, General Counsel and Secretary |

GAMCO Asset Management Inc.

Directors:

Douglas R. Jamieson
Regina M. Pitaro
William S. Selby

Officers:

| | |
|------------------|---|
| Mario J. Gabelli | Chief Investment Officer – Value Portfolios |
|------------------|---|

| | |
|---------------------------|---|
| Douglas R. Jamieson | President |
| John Piontkowski | Chief Operating Officer & Chief Financial Officer |
| Christopher J. Michailoff | General Counsel and Secretary |

Gabelli Funds, LLC

Officers:

| | |
|------------------|--|
| Mario J. Gabelli | Chief Investment Officer – Value Portfolios |
| Bruce N. Alpert | Executive Vice President and Chief Operating Officer |
| James E. McKee | Secretary |

Gabelli Advisers, Inc.

Directors:

| | |
|---------------------|-----------|
| Bruce N. Alpert | See above |
| Douglas R. Jamieson | See above |

Officers:

| | |
|-----------------|-------------------------|
| Bruce N. Alpert | Chief Operating Officer |
| James E. McKee | Secretary |

Gabelli Securities, Inc.

Directors:

| | |
|---------------------|---|
| Robert W. Blake | President of W. R. Blake & Sons, Inc. 196-20 Northern Boulevard Flushing, NY 11358 |
| Douglas G. DeVivo | General Partner of ALCE Partners, L.P. One First Street, Suite 16 Los Altos, CA 94022 |
| Douglas R. Jamieson | President and Chief Operating Officer |

Officers:

| | |
|---------------------------|-------------------------|
| Douglas R. Jamieson | See above |
| Terrence Clancy | Chief Operating Officer |
| Christopher J. Michailoff | Secretary |
| Kieran Caterina | Chief Financial Officer |

Gabelli & Company, Inc.

Directors:

| | |
|-----------------------|------------------------------|
| James G. Webster, III | Chairman & Interim President |
|-----------------------|------------------------------|

Irene Smolicz
Senior Trader
Gabelli & Company, Inc.

Officers:

James G. Webster, III
Chairman & Interim President
Bruce N. Alpert
Vice President - Mutual Funds

James E. McKee
Secretary
LICT Corporation
401 Theodore Fremd Avenue Rye, NY 10580

Directors:

Mario J. Gabelli
Glenn Angelillo
See above - GGCP, Inc.
P.O. Box 128
New Canaan, CT 06840
Alfred W. Fiore
The Ross Companies
1270 Avenue of the Americas
New York, NY 10020-1703

Salvatore Muoio
Principal
S. Muoio & Co., LLC
Suite 406
509 Madison Ave.
New York, NY 10022
Gary L. Sugarman
Chief Executive Officer
Richfield Associates
400 Andrews Street
Rochester, NY 14604

Officers:

Mario J. Gabelli
Robert E. Dolan
Chairman
Interim President and Chief Executive Officer,
Chief Financial Officer
Thomas J. Hearity
General Counsel
(1) Citizen of Germany

SCHEDULE II
 INFORMATION WITH RESPECT TO
 TRANSACTIONS EFFECTED DURING THE PAST SIXTY DAYS OR
 SINCE THE MOST RECENT FILING ON SCHEDULE 13D (1)

SHARES PURCHASED AVERAGE
 DATE SOLD(-) PRICE(2)
 COMMON STOCK-NEXTEST SYSTEMS CORPORATION
 GAMCO ASSET MANAGEMENT INC.

| | | |
|----------|--------|---------|
| 1/11/08 | 45,000 | 19.8750 |
| 1/08/08 | 500 | 19.8725 |
| 1/07/08 | 62,800 | 19.9050 |
| 1/07/08 | 500 | 19.9018 |
| 1/04/08 | 36,000 | 19.9048 |
| 1/03/08 | 1,200 | 19.9050 |
| 1/02/08 | 20,233 | 19.9003 |
| 1/02/08 | 1,000 | 19.8907 |
| 12/26/07 | 14,000 | 19.8850 |
| 12/24/07 | 86,000 | 19.8507 |
| 12/21/07 | 500 | 19.7753 |
| 12/19/07 | 4,767 | 19.7677 |
| 12/19/07 | 2,500 | 19.7801 |
| 12/19/07 | 8,000 | 19.7703 |
| 12/17/07 | 500 | 19.6383 |
| 12/14/07 | 1,500 | 19.6159 |
| 12/12/07 | 3,000 | 19.5617 |
| 12/12/07 | 2,000 | 19.5867 |

GABELLI SECURITIES, INC.

GABELLI ASSOCIATES LTD

| | | |
|----------|--------|---------|
| 1/11/08 | 4,500 | 19.8300 |
| 1/10/08 | 2,000 | 19.8470 |
| 1/09/08 | 1,000 | 19.8383 |
| 1/08/08 | 9,000 | 19.8725 |
| 1/07/08 | 2,000 | 19.9018 |
| 1/02/08 | 8,000 | 19.8907 |
| 12/31/07 | 5,000 | 19.8891 |
| 12/28/07 | 1,500 | 19.8864 |
| 12/24/07 | 1,000 | 19.7750 |
| 12/21/07 | 12,000 | 19.7753 |
| 12/19/07 | 2,000 | 19.6550 |
| 12/17/07 | 12,500 | 19.6383 |
| 12/14/07 | 23,000 | 19.6159 |
| 12/12/07 | 30,500 | 19.5867 |

GABELLI ASSOCIATES FUND II

| | | |
|----------|-------|---------|
| 12/31/07 | 500 | 19.8891 |
| 12/24/07 | 500 | 19.7750 |
| 12/21/07 | 1,500 | 19.7753 |
| 12/17/07 | 1,500 | 19.6383 |

| | | |
|------------------------------|---------|---------|
| 12/14/07 | 2,500 | 19.6159 |
| 12/12/07 | 3,500 | 19.5867 |
| GABELLI ASSOCIATES FUND | | |
| 1/11/08 | 5,500 | 19.8300 |
| 1/10/08 | 3,000 | 19.8470 |
| 1/09/08 | 2,003 | 19.8383 |
| 1/08/08 | 10,500 | 19.8725 |
| 1/07/08 | 1,167 | 19.9018 |
| 1/04/08 | 1,444 | 19.8550 |
| 1/03/08 | 5,150 | 19.9043 |
| 1/02/08 | 8,426 | 19.8907 |
| 12/31/07 | 5,753 | 19.8891 |
| 12/28/07 | 3,401 | 19.8864 |
| 12/24/07 | 1,000 | 19.7750 |
| 12/21/07 | 14,200 | 19.7753 |
| 12/19/07 | 3,000 | 19.6550 |
| 12/17/07 | 15,500 | 19.6383 |
| 12/14/07 | 28,000 | 19.6159 |
| 12/12/07 | 37,917 | 19.5867 |
| GABELLI FUNDS, LLC. | | |
| THE GABELLI GLOBAL DEAL FUND | | |
| 1/11/08 | 117,600 | 19.8750 |
| 1/10/08 | 85,600 | 19.8750 |
| 1/09/08 | 96,800 | 19.8450 |
| 1/08/08 | 99,000 | 19.9041 |
| 1/07/08 | 3,100 | 19.8950 |
| 1/04/08 | 59,800 | 19.9048 |
| 1/03/08 | 18,100 | 19.9050 |
| 1/02/08 | 12,400 | 19.8950 |
| 12/21/07 | 7,600 | 19.8274 |
| 12/18/07 | 70,000 | 19.7742 |
| 12/12/07 | 30,000 | 19.5550 |
| GABELLI ABC FUND | | |
| 1/11/08 | 100,000 | 19.8850 |
| 12/31/07 | 6,400 | 19.8999 |
| 12/28/07 | 17,800 | 19.8849 |
| 12/27/07 | 38,400 | 19.8850 |
| 12/20/07 | 50,000 | 19.7550 |
| 12/19/07 | 148,000 | 19.7744 |
| 12/12/07 | 52,000 | 19.5908 |

(1) UNLESS OTHERWISE INDICATED, ALL TRANSACTIONS WERE EFFECTED

ON THE NASDAQ STOCK MARKET.

(2) PRICE EXCLUDES COMMISSION.

Exhibit A

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(f) under the securities Exchange Act of 1934, as amended, the undersigned hereby agree to the joint filing with all other Reporting Entities (as such term is defined in the Schedule 13D referred to below) on behalf of each of them of a statement on Schedule 13D (including amendments thereto) with respect to the Common Stock of Nextest Systems Corporation, and that this Agreement be included as an Exhibit to such joint filing. This Agreement may be executed in any number of counterparts all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the undersigned hereby execute this Agreement this January 14, 2008.

MARIO J. GABELLI
GGCP, INC.
MJG ASSOCIATES, INC.
GABELLI FOUNDATION, INC.
LICT CORPORATION

By: /s/ James E. McKee

James E. McKee

Attorney-in-Fact

GAMCO INVESTORS, INC.

GABELLI FUNDS, LLC

GABELLI SECURITIES, INC.

GABELLI & COMPANY, INC.

By: /s/ James E. McKee _____

James E. McKee

Secretary or Assistant Secretary

GAMCO ASSET MANAGEMENT INC.

By: /s/ Douglas R.

Jamieson

Douglas R. Jamieson

President

