SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(Amendment No. 1)*

BLUEJAY DIAGNOSTICS, INC.

(Name of Issuer)

Common Stock, $0.0001 par value

(Title of Class of Securities)

095633400

(CUSIP Number)

12/31/2024

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- ☑ Rule 13d-1(b)
- ☐ Rule 13d-1(c)
- ☐ Rule 13d-1(d)

SCHEDULE 13G

CUSIP No. 095633400

1	Names of Reporting Persons Anson Funds Management LP
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 TEXAS

Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 367,950.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 367,950.00
9		Aggregate Amount Beneficially Owned by Each Reporting Person 367,950.00
10		Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) ☐
11		Percent of class represented by amount in row (9) 1.4 %
12		Type of Reporting Person (See Instructions) IA, PN

Comment for Type of Reporting Person: **SEE ITEM 4(b).

SCHEDULE 13G

CUSIP No. 095633400

1		Names of Reporting Persons Anson Management GP LLC
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 TEXAS
Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 367,950.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 367,950.00
9		Aggregate Amount Beneficially Owned by Each Reporting Person 367,950.00
10		Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

☐

Percent of class represented by amount in row (9)

11

1.4 %

Type of Reporting Person (See Instructions)

12

HC, OO

Comment for Type of Reporting Person: **SEE ITEM 4(b).

SCHEDULE 13G

CUSIP No. 095633400

Names of Reporting Persons

1

Tony Moore

Check the appropriate box if a member of a Group (see instructions)

2

☐ (a)
☐ (b)

3 Sec Use Only

Citizenship or Place of Organization

4

UNITED STATES

Number of Shares Beneficially Owned by Each Reporting Person With:		
	5	Sole Voting Power 0.00
	6	Shared Voting Power 367,950.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 367,950.00

Aggregate Amount Beneficially Owned by Each Reporting Person

9

367,950.00

Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)

10

☐

Percent of class represented by amount in row (9)

11

1.4 %

Type of Reporting Person (See Instructions)

12

HC, IN

Comment for Type of Reporting Person: **SEE ITEM 4(b).

SCHEDULE 13G

CUSIP No. 095633400

1	Names of Reporting Persons Anson Advisors Inc.	
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 ONTARIO, CANADA	
Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 367,950.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 367,950.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person 367,950.00	
10	Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) ☐	
11	Percent of class represented by amount in row (9) 1.4 %	
12	Type of Reporting Person (See Instructions) FI, CO	

Comment for Type of Reporting Person: **SEE ITEM 4(b).

SCHEDULE 13G

CUSIP No. 095633400

1	Names of Reporting Persons Amin Nathoo	
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 CANADA (FEDERAL LEVEL)	
Number of Shares Beneficially Owned by	5	Sole Voting Power 0.00

Each Reporting Person With:	6	Shared Voting Power 367,950.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 367,950.00
9		Aggregate Amount Beneficially Owned by Each Reporting Person 367,950.00
10		Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) ☐
11		Percent of class represented by amount in row (9) 1.4 %
12		Type of Reporting Person (See Instructions) HC, IN

Comment for Type of Reporting Person: **SEE ITEM 4(b).

SCHEDULE 13G

CUSIP No. 095633400

1		Names of Reporting Persons Moez Kassam
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 CANADA (FEDERAL LEVEL)
Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 367,950.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 367,950.00
9		Aggregate Amount Beneficially Owned by Each Reporting Person 367,950.00
10		Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) ☐
11		Percent of class represented by amount in row (9)

1.4 %

Type of Reporting Person (See Instructions)

12

HC, IN

Comment for Type of Reporting Person: **SEE ITEM 4(b). AMENDMENT NO. 1 TO SCHEDULE 13G This Amendment No. 1 (this "Amendment") to Schedule 13G (the "Schedule 13G") is being filed on behalf of Anson Funds Management LP (d/b/a Anson Funds), a Texas limited partnership, Anson Management GP LLC, a Texas limited liability company, Mr. Tony Moore, the principal of Anson Funds Management LP and Anson Management GP LLC, Anson Advisors Inc., an Ontario, Canada corporation, Mr. Amin Nathoo, a director of Anson Advisors Inc., and Mr. Moez Kassam, a director of Anson Advisors Inc., relating to Common Stock, $0.0001 par value (the "Common Stock"), of Bluejay diagnostics, inc., a Delaware corporation (the "Issuer"). This Amendment relates to the Common Stock of the Issuer purchased by a private fund to which Anson Funds Management LP and Anson Advisors Inc. serve as co-investment advisors (the "Fund"). Anson Funds Management LP and Anson Advisors Inc. serve as co-investment advisors to the Fund and may direct the vote and disposition of the 367,950 shares of Common Stock held by the Fund. As the general partner of Anson Funds Management LP, Anson Management GP LLC may direct the vote and disposition of the 367,950 shares of Common Stock held by the Fund. As the principal of Anson Fund Management LP and Anson Management GP LLC, Mr. Moore may direct the vote and disposition of the 367,950 shares of Common Stock held by the Fund. As directors of Anson Advisors Inc., Mr. Nathoo and Mr. Kassam may each direct the vote and disposition of the 367,950 shares of Common Stock held by the Fund. This Amendment amends and restates the previously files Schedule 13G as set forth below:

SCHEDULE 13G

Item 1.

Name of issuer:

(a)

BLUEJAY DIAGNOSTICS, INC.

Address of issuer's principal executive offices:

(b)

360 Massachusetts Avenue, Suite 203 Acton, MA, 01720

Item 2.

Name of person filing:

(a)

Anson Funds Management LP, Anson Management GP LLC, Mr. Tony Moore, Anson Advisors Inc., Mr. Amin Nathoo and Mr. Moez Kassam

Address or principal business office or, if none, residence:

(b)

For Anson Funds Management LP, Anson Management GP LLC and Mr. Moore: 16000 Dallas Parkway, Suite 800 Dallas, Texas 75248 For Anson Advisors Inc., Mr. Nathoo and Mr. Kassam: 181 Bay Street, Suite 4200 Toronto, ON M5J 2T3

Citizenship:

(c)

Anson Funds Management LP is a limited partnership organized under the laws of the State of Texas. Anson Management GP LLC is a limited liability company organized under the laws of the State of Texas. Mr. Moore is a United States citizen. Anson Advisors Inc. is a corporation organized under the laws of Ontario, Canada. Mr. Nathoo and Mr. Kassam are each Canadian citizens.

Title of class of securities:

(d)

Common Stock, $0.0001 par value

CUSIP No.:

(e)

095633400

Item 3. If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

(a) ☐ Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);

(b) ☐ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);

(c) ☐ Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);

(d) ☐ Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);

(e) ☑ An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);

(f) ☐ An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);

(g) ☑ A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);

(h) ☐ A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);

(i) ☐ A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);

(j) ☑ A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J),
please specify the type of institution:

(k) ☐ Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K).

TO COME

Item 4. Ownership

Amount beneficially owned:

(a) Anson Funds Management LP, Anson Management GP LLC, Mr. Moore, Anson Advisors Inc., Mr. Nathoo and Mr. Kassam are the beneficial owners of 367,950 shares of Common Stock held by the Fund.

Percent of class:

(b) Anson Funds Management LP, Anson Management GP LLC, Mr. Moore, Anson Advisors Inc., Mr. Nathoo and Mr. Kassam are the beneficial owners of 1.4% of the outstanding shares of Common Stock, which includes shares of Common Stock underlying outstanding warrants (each, a "Warrant," and collectively, the "Warrants") held by Anson Funds Management LP, Anson Management GP LLC, Mr. Moore, Anson Advisors Inc., Mr. Nathoo and Mr. Kassam. This percentage is determined by dividing 367,950 by 27,251,921, which is the sum of: (i) 26,883,971 shares of Common Stock issued and outstanding, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission (the "SEC") on November 7, 2024; and (ii) 367,950, the number of shares of Common Stock receivable by the Fund upon exercise of the Warrants. %

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote:

(ii) Shared power to vote or to direct the vote:

Anson Funds Management LP and Anson Advisors Inc., as the co-investment advisors to the Fund, may direct the vote and disposition of the 367,950 shares of Common Stock held by the Fund. Anson Management GP LLC, as the general partner of Anson Funds Management LP, may direct the vote and disposition of the 367,950 shares of Common Stock held by the Fund. As the principal of Anson Funds Management LP and Anson Management GP LLC, Mr. Moore may direct the vote and disposition of the 367,950 shares of Common Stock held by the Fund. Mr. Nathoo and Mr. Kassam, each as a director of Anson Advisors Inc., may direct the vote and disposition of the 367,950 shares of Common Stock held by the Fund.

(iii) Sole power to dispose or to direct the disposition of:

(iv) Shared power to dispose or to direct the disposition of:

Item 5. Ownership of 5 Percent or Less of a Class.

☑ Ownership of 5 percent or less of a class

Item 6. Ownership of more than 5 Percent on Behalf of Another Person.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than 5 percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

See description regarding the Fund in the introduction, which is incorporated by reference herein.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

If a parent holding company has filed this schedule, pursuant to Rule 13d-1(b)(ii)(G), so indicate under Item 3(g) and attach an exhibit stating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.

See description of control persons of Anson Funds Management LP and Anson Advisors Inc. in the introduction, which is incorporated by reference herein.

Item 8. Identification and Classification of Members of the Group.

Not Applicable

Item 9. Notice of Dissolution of Group.

Not Applicable

Item 10. Certifications:

By signing below each of the Reporting Persons certifies that, to the best of such person's knowledge and belief, the securities referred to above were acquired and held in the ordinary course of business and were not acquired and were 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. For Anson Advisors Inc.: By signing below I certify that, to the best of my knowledge and belief, the foreign regulatory scheme applicable to portfolio managers and exempt market dealers is substantially comparable to the regulatory scheme applicable to the functionally equivalent U.S. institution(s). I also undertake to furnish to the Commission staff, upon request, information that would otherwise be disclosed in a Schedule 13D.

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.

Anson Funds Management LP

Signature: Anson Management GP LLC, its general partner
/s/ Tony Moore
Name/Title: Manager
Date: 02/14/2025

Anson Management GP LLC

Signature: /s/ Tony Moore
Name/Title: Manager
Date: 02/14/2025

Tony Moore

Signature: /s/ Tony Moore
Name/Title: Manager
Date: 02/14/2025

Anson Advisors Inc.

Signature: /s/ Amin Nathoo
Name/Title: Director
Date: 02/14/2025

Signature: /s/ Moez Kassam
Name/Title: Director
Date: 02/14/2025

Amin Nathoo

Signature: /s/ Amin Nathoo
Name/Title: Director
Date: 02/14/2025

Moez Kassam

Signature: /s/ Moez Kassam
Name/Title: Director
Date: 02/14/2025