

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No.)*

Genelux Corporation
(Name of Issuer)

Common Stock, par value \$0.001 per share
(Title of Class of Securities)

36870H103
(CUSIP Number)

September 30, 2024
(Date of event which requires filing of this statement)

Check the appropriate box to designate the rule pursuant to which this Schedule 13G is filed:

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

(Page 1 of 6 Pages)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1	NAMES OF REPORTING PERSONS Highbridge Capital Management, LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION State of Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 2,500,000 shares of Common Stock issuable upon the exercise of warrants
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 2,500,000 shares of Common Stock issuable upon the exercise of warrants
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,500,000 shares of Common Stock issuable upon the exercise of warrants	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 6.8%	
12	TYPE OF REPORTING PERSON IA, OO	

Item 1(a). NAME OF ISSUER:

The name of the issuer is Genelux Corporation (the "Company").

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

The Company's principal executive offices are located at 2625 Townsgate Road, Suite 230, Westlake Village, CA 91361.

Item 2(a). NAME OF PERSON FILING:

This statement is filed by Highbridge Capital Management, LLC ("Highbridge" or the "Reporting Person"), a Delaware limited liability company and the investment adviser to certain funds and accounts (the "Highbridge Funds"), with respect to the shares of Common Stock (as defined in Item 2(d) below) underlying warrants directly held by the Highbridge Funds.

The filing of this statement should not be construed as an admission that any of the foregoing persons or the Reporting Person is, for the purposes of Section 13 of the Act, the beneficial owner of the securities reported herein.

Item 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE:

The address of the business office of the Reporting Person is 277 Park Avenue, 23rd Floor, New York, New York 10172.

Item 2(c). CITIZENSHIP:

Highbridge is a Delaware limited liability company.

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

Common Stock, par value \$0.001 per share (the "Common Stock").

Item 2(e). CUSIP NUMBER:

36870H103

Item 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13d-1(b) OR 13d-2(b) OR (c), CHECK WHETHER THE PERSON FILING IS A:

- (a) Broker or dealer registered under Section 15 of the Act,
- (b) Bank as defined in Section 3(a)(6) of the Act,
- (c) Insurance Company as defined in Section 3(a)(19) of the Act,
- (d) Investment Company registered under Section 8 of the Investment Company Act of 1940,

- (e) An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- (f) Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F),
- (g) Parent Holding Company or control person in accordance with Rule 13d-1(b)(1)(ii)(G),
- (h) Savings Association as defined in Section 3(b) of the Federal Deposit Insurance Act,
- (i) A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- (j) A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J);
- (k) Group, in accordance with Rule 13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution: _____

Item 4. OWNERSHIP.

The information required by Items 4(a) - (c) is set forth in Rows 5 - 11 of the cover page of the Reporting Person and is incorporated herein by reference.

The percentages set forth herein are calculated based upon 34,535,471 shares of Common Stock reported to be outstanding as of August 12, 2024, as reported in the Company's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2024, filed with the Securities and Exchange Commission on August 14, 2024, and assumes the exercise of the warrants held by the Highbridge Funds.

Item 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS.

Not applicable.

Item 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON.

See Item 2. The Highbridge Funds have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Common Stock reported herein. Highbridge Tactical Credit Master Fund, L.P., a Highbridge Fund, has the right to receive or the power to direct the receipt of dividends or the proceeds from the sale of more than 5% of the Common Stock.

Item 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY.

Not applicable.

Item 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP.

Not applicable

Item 9. NOTICE OF DISSOLUTION OF GROUP.

Not applicable.

Item 10. CERTIFICATION.

The Reporting Person hereby makes the following certification:

By signing below the Reporting Person 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 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.

