UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

Form 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of April 2023

Commission File Number 001-38370

CollPlant Biotechnologies Ltd. (Exact name of registrant as specified in its charter)

4 Oppenheimer St, Weizmann Science Park Rehovot 7670104, Israel (Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F ⊠ Form 40-F □

CollPlant Biotechnologies Ltd. has posted to its website an updated corporate presentation. A copy of the presentation is furnished with this Report of Foreign Private Issuer on Form 6-K as Exhibit 99.1 and is incorporated herein by reference.

	Exhibit Index	
99.1	Investor Presentation	

1

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: April 11, 2023

COLLPLANT BIOTECHNOLOGIES LTD.

By: /s/ Eran Rotem

Name: Eran Rotem Title: Deputy CEO and Chief Financial Officer



Safe Harbor Statement

Certain statements in this presentation constitute "forward-looking statements" within the meaning of Section 27A of the Securities Act and Section 21E of the Securities Exchange Act and are usually identified by the use of words such as "anticipates," "believes," "estimates," "expects," "intends," "may," "projects," "seeks," "should," "will," and variations of such words or similar expressions. We intend these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act and Section 21E of the Securities Exchange Act and are making this statement for purposes of complying with those safe harbor provisions. These forward-looking statements may include, but are not limited to, statements relating to our objectives, plans and strategies, statements that contain projections of results of operations or of financial condition, expected capital needs and expenses, statements relating to the research, development, completion and use of our products, and all statements (other than statements of historical facts) that address activities, events or developments that we intend, expect, project, believe or anticipate will or may occur in the future.

These forward-looking statements reflect our current views about our plans, intentions, expectations, strategies and prospects, which are based on the information currently available to us and on assumptions we have made. Although we believe that our plans, intentions, expectations, strategies and prospects as reflected in or suggested by those forward-looking statements are reasonable, we can give no assurance that the plans, intentions, expectations or strategies and prospects as reflected in or suggested by those forward-looking from those described in the forward-looking statements and are expected to be affected by a variety of risks and factors that are beyond our control. Risks and uncertainties for our company include, but are not limited to: the Company's history of significant losses and its need to raise additional capital and its inability to obtain additional capital on acceptable terns, or at all; the Company's expectations regarding the timing and cost of commencing clinical trials with respect to tissues and organs which are based on its rhCollagen based Biolnk and products for medical aesthetics; the Company's ability to obtain favorable pre-clinical and clinical trial results; regulatory action with respect to rhCollagen based Biolnk and medical aesthetics products including but not limited to acceptance of an application for marketing authorization, review and approval of such application, and, if approved, the scope of the approved indication and labeling; commercial success and market acceptance of the Company's rhCollagen based products, in 3D bioprinting and medical aesthetics; the Company is ability to establish and maintain strategic partnerships and other corporate collaborations; the Company's reliance on third parties to conduct some or all aspects of its product manufacturing; the scope of protection the Company is able to establish and maintain for intellectual property rights and the Company's ability to operate its business without infringing the intellectual property r

The statements made in this presentation speak only as of the date stated herein, and subsequent events and developments may cause our expectations and beliefs to change. Unless otherwise required by applicable securities laws, we do not intend, nor do we undertake any obligation, to update or revise any forward-looking statements contained in this presentation to reflect subsequent information, events, results or circumstances or otherwise. While we may elect to update these forward-looking statements publicly at some point in the future, we specifically disclaim any obligation to do so, whether as a result of new information, future events or otherwise, except as required by law.

The trademarks included herein are the property of the owners thereof and are used for reference purposes only. Such use should not be construed as an endorsement of such products.



Our Company Vision

There will be an **unlimited supply** of spare parts for the human body, including life-saving organs

Imagine a future where...

Medical treatment will be tailored for the individual characteristics of each patient Drugs will be developed without the need for animal testing



We aspire to become the leaders in regenerative medicine, helping people live longer and better and creating improvements in science through our regenerative technology

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Investment Thesis

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Pioneering Proprietary, Plant-Based Technology Platform



Strategic agreement with global top-tier pharmaceutical company AbbVie

Addressing Multi-billiondollar markets

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Highly seasoned management team The second

Broadly applicable, clinically validated technology



Strong cash position of \$29 million as of December 31, 2022

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At-a Glance





Collagen is an Essential Component of the Human Body

25% to 35% of the whole-body protein content

The main structural protein in the extracellular matrix found in the body's organs and various connective tissues*

Ideal scaffolding molecule for regenerative medicine

(CollPlant (e.g. cartilage, bones, tendons, ligaments, skin and vasculature)



Our Technology Platform Produces Human Collagen in Plants at Mass-Scale

Five human genes essential to the synthesis of Type 1 collagen are introduced into tobacco plants to produce rhCollagen identical to human collagen but without an adverse immune response



rhCollagen: The Ideal Building Block for Regenerative Medicine

Clear advantages over tissue-extracted (animal-derived) collagen



How We are Applying our rhCollagen: Areas of Focus



Diverse Product Pipeline, Associated with Significant IP





Dermal Fillers: Market Overview



~2.6M HA procedures in 2020 in the US1



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\$5B, 9.6% CAGR Global dermal filler market, 2021, CAGR 2022-20282







www.plasficsurgery.org/sociaries/analysis/dermal-file-www.gminsights.com/industry-analysis/dermal-file-www.meticalaparx.com/sue-ji.re-file-wc-maticalaparx.com/sue-ji.re-derm-uitra-pile-wc

Collaboration Agreement with AbbVie

abbvie



Unmet Need: Dermal Fillers To-Date Have Numerous Drawbacks

Safety issues

- Various adverse events, including inflammatory response
- Potential for nodule formation



Undesired physical outcome (unnatural look due to lack of pliability under skin)



Short-lasting and require repeat injections

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Photocurable Dermal & Soft Tissue Filler

The New Shape of Beauty



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Introducing our State-of-the-Art Regenerative Soft Tissue Filler

Photocurable filler comprised of rhCollagen and hyaluronic acid, injected in a semi-solid phase, hardened in-situ by light illumination



Key Attributes



Evolution of Hyaluronic Acid (HA) Dermal Filler

urrently HA marketed products		CONTOURA®	-
Ø	Lifting		
	Rejuvenation		
	Contouring		

Breast Reconstruction / Augmentation

CollPlant's first-ever regenerating breast implant

Breast Implants Market Overview

Current breast reconstruction is based on synthetic breast implantation, free flap surgery/autologous fat tissue transfer - all of which replace tissue rather than regenerate it.



Unmet Need: The Ability to Regenerate Breast Tissue No regenerative breast implant exists



FDA alert:

Patients with breast implants have an increased risk of developing breast implant Associated-Anaplastic Large Cell Lymphoma (Feb 2019)*

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CollPlant's 3D Bioprinted Regenerative Breast Implants for Aesthetic and Reconstructive Procedures



A preclinical study demonstrated progressive stages of tissue regeneration after three months, as highlighted by the formation of maturing connective tissue and neovascular networks within the implants, with no adverse events reported.

A follow-up large-animal study is planned to be conducted during the 2nd half of 2023 using commercial-size implants



Joint Development and Commercialization Agreement with Stratasys: Announced 4/4/2023



Co-development agreement with a leader in additive manufacturing with decades of 3D printing experience



Combines the technologies of Stratasys' new bioprinter based on its precise P3™ 3D printing technology with CollPlant's rhCollagen-based bioinks



Under the agreement, both companies have agreed to cross-promote each other's bioprinting products



< stratasys

Agreement terms

CollPlant and Stratasys have a joint development and commercialization agreement to collaborate on the development of a solution to bio-fabricate human tissues and organs

The first project focuses on the development of an industrial-scale solution to produce CollPlant's regenerative, first-ever breast implant based on its rhCollagen technology.



Our rhCollagen-Based 3-D Bioprinted Gut-on-a-Chip Has the Potential to Shift Drug Discovery and Personalized Medicine

H.R.2565 - FDA Modernization Act of 2021 passed in January 2023, amends the Federal Food, Drug, and Cosmetic Act to allow manufacturers and sponsors of a drug to use alternative testing methods to animal testing to investigate the safety and effectiveness of a drug, and for other purposes.

Chip technologies offer significant potential to change the diagnostic paradigm and personalized treatment landscape with both refined and costeffective laboratory testing

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" Animal models are wrong more often than right..."

> Don E. Ingber, M.D., Ph.D., The Wyss Institute for Biologically Inspired Engineering at Harvard University

Inflammatory Bowl Diseases: An Example of an Unmet Need that Exists for IBD Patients

Inflammatory bowel diseases, which include ulcerative colitis and Crohn's disease, are characterized by chronic inflammation, a relapsing and remitting clinical course and life-long treatment.



Our Collaborators: Gut-on-a-Chip Technology From Tel-Aviv University and Sheba Medical Center



Co-development agreement with Tel-Aviv University and Sheba Medical Center



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Model designed to accurately mimic the human intestine tissue structure and function

Patient-specific cells enable screening of multiple drugs and identification of the most effective personalized therapeutic response





Agreement terms (Nov 2022)

CollPlant has an exclusive license for development, manufacturing and commercializing of the final product;

Tel Aviv University and Sheba will receive royalties on product sales

CollPlant is open to partnering this program for commercialization





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3D bioprinting represents a wide range of development opportunities





Bioinks Competitive Landscape



Collagen-based:

- Tissue-extracted collagen (e.g. rat, bovine)
- Synthetic peptides



Non-collagen-based:

- Polysaccharides (HA, cellulose, alginate)
 - Glycoprotein (Fibrinogen)
 - Synthetic peptides
 - Synthetic polymers (PEG, PCL, Pluronic)

Drawbacks of most commonly used bioinks:

- Unsuitable for clinical use
- May elicit immune response
- · High batch-to-batch variability
- Small scale production

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Collink.3D: rhCollagen-bioink platform for biofabrication

Collink 3D



Animal-free: excellent safety profile non immunogenic Optimal rheology at room temperature Collink 3D⁵⁰⁰ Collink 3D



Compatible with major printing technologies



Mass productionconsistency robustness High homogeneity reproducibility

CollPlant Collink.3D[™]: A xeno-free human-collagen based Biolnk, perfectly mimicking properties of the native tissue or organ

Cytocompatible,

Biofunctional







Seasoned Management Team with Engineering, Pharmaceutical, Device and Life Sciences Experience





Investment Summary



Thank you

