
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 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 October 2023 (Report No.2)

Commission file number: 001-40753

ICECURE MEDICAL LTD.
(Translation of registrant's name into English)

7 Ha'Eshel St., PO Box 3163
Caesarea, 3079504 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

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On October 5, 2023, IceCure Medical Ltd. (the "Company") issued a press release titled: "Women Deemed Inoperable for Breast Cancer Benefitted from IceCure Medical's ProSense as an Independent Study Performed in Italy Showed a Tumor Reduction Rate of 93.43% to 96.81%," a copy of which is furnished as Exhibit 99.1 with this Report of Foreign Private Issuer on Form 6-K (the "Report").

The first, second, third and fifth paragraphs and the section titled "Forward Looking Statements" in the press release furnished herewith are incorporated by reference into the Company's Registration Statements on Form F-3 (Registration Nos. [333-258660](#) and [333-267272](#)) and Form S-8 (Registration Nos. [333-270982](#), [333-264578](#), and [333-262620](#)), filed with the Securities and Exchange Commission, to be a part thereof from the date on which this Report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.

Exhibit No.

99.1	Press release titled: "Women Deemed Inoperable for Breast Cancer Benefitted from IceCure Medical's ProSense as an Independent Study Performed in Italy Showed a Tumor Reduction Rate of 93.43% to 96.81%."
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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.

IceCure Medical Ltd.

Date: October 5, 2023

By: /s/ Eyal Shamir
Name: Eyal Shamir
Title: Chief Executive Officer

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Women Deemed Inoperable for Breast Cancer Benefitted from IceCure Medical's ProSense as an Independent Study Performed in Italy Showed a Tumor Reduction Rate of 93.43% to 96.81%

- *Disappearance of lesions and absence of residual malignant cells in Luminal-A group considered to be predictive for the complete effectiveness of the treatment*
- *This is the latest in a growing body of evidence presented by independent, non-sponsored doctors who use ProSense*

CAESAREA, Israel, October 5, 2023 -- IceCure Medical Ltd. (Nasdaq: ICCM) ("IceCure" or the "Company"), developer of the ProSense® System, a minimally-invasive cryoablation technology that destroys tumors by freezing as an alternative to surgical tumor removal, today announced that the findings from an independent breast cancer study, performed by a leading radiologist in Italy, support the safety and efficacy of the Company's ProSense, a minimally-invasive cryoablation system. This independent study adds to the growing body of scientific data using ProSense in women deemed inoperable for breast cancer.

During the study, ultrasound-guided cryoablation using ProSense was performed on 28 women, who had biopsy-proven malignant lesions, and were deemed inoperable by a multidisciplinary group, and submitted to hormone therapy. At a median age of 73.4 years, 14 of the women were diagnosed with molecular subtype Luminal-A tumors and another 14 diagnosed with Luminal-B tumors. Patients were monitored at one, three, and six months post-procedure, at which time the tumor size reduction rate was evaluated by ultrasound. The effectiveness of the procedure was further evaluated after one year by core needle biopsy on the post-procedural scar (inside the breast at the site of the tumor) to determine the absence of residual tumoral cells. The size reduction rates were as follows:

1 month:	21.59% for Luminal-A vs. 19.83% for Luminal-B
3 months:	70.16% for Luminal-A vs. 60.71% for Luminal-B
6 months:	96.81% for Luminal-A vs. 93.43% for Luminal-B

In the Luminal-A group, there was an absence of residual malignant cells in all biopsy samples and a disappearance of lesions, leading the study to conclude this is a predictive factor for the complete effectiveness of treatment. Luminal-A is the most common subtype and represents 50%-60% of all breast cancers¹.

"The patients in the study were deemed inoperable and had no treatment options available other than hormone therapy, and as we observe breast cancer awareness month, it is reassuring that a minimally invasive cryoablation procedure using IceCure's ProSense system is an available alternative," stated IceCure's CEO, Eyal Shamir. "This was a relatively short independent study that measured tumor size reduction, however the highly favorable results nonetheless validate similar results we are experiencing in our longer-term five-year post-procedure ICE3 study, which we expect to conclude in the first quarter of 2024. We believe the increasing number of doctors using ProSense and conducting these studies on their own initiative is the best testament to the usability and benefit of ProSense in real-world clinical settings."

The data from the Italy study was presented in a poster titled, "Assessing the outcome of cryoablation treatment on different molecular subtype of low-grade breast cancer," at the European Society of Breast Imaging ("EUSOBI") Scientific Meeting that was recently held in Valencia, Spain. The data was presented by Principal Investigator, Dr. F. Di Naro, of Azienda Ospedaliero-Universitaria Careggi, Diagnostic Senology Unit, Florence, Italy. ProSense is approved in Italy for numerous indications, including breast cancer.

¹. Yersal O, Barutca S. Biological subtypes of breast cancer: Prognostic and therapeutic implications. World J Clin Oncol. 2014 Aug 10;5(3):412-24. doi: 10.5306/wjco.v5.i3.412. PMID: 25114856; PMCID: PMC4127612.



About IceCure Medical

IceCure Medical (Nasdaq: ICCM) develops and markets ProSense®, an advanced liquid-nitrogen-based cryoablation therapy for the treatment of tumors (benign and cancerous) by freezing, with the primary focus areas being breast, kidney, bone and lung cancer. Its minimally invasive technology is a safe and effective alternative to hospital surgical tumor removal that is easily performed in a relatively short procedure. The system is marketed and sold worldwide for the indications cleared and approved to date including in the U.S., Europe, and China.

Forward Looking Statements

This press release contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995 and other Federal and Israeli securities laws. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimates" and similar expressions or variations of such words are intended to identify forward-looking statements. For example, IceCure is using forward looking statement in this press release when it discusses: the expected conclusion of its ICE3 study in the first quarter of 2024; and the belief that the increasing number of doctors using ProSense and conducting studies with ProSense is a testament to the usability and benefit of ProSense in real-world clinical settings. Historic results of scientific research, studies and clinical and preclinical trials do not guarantee that the conclusions of future research or trials will suggest identical or even similar conclusions. Because such statements deal with future events and are based on IceCure's current expectations, they are subject to various risks and uncertainties and actual results, performance, or achievements of IceCure could differ materially from those described in or implied by the statements in this press release. The forward-looking statements contained or implied in this press release are subject to other risks and uncertainties, many of which are beyond the control of the Company, including those set forth in the Risk Factors section of the Company's Annual Report on Form 20-F for the year ended December 31, 2022 filed with the SEC on March 29, 2023, and other documents filed with or furnished to the SEC which are available on the SEC's website, www.sec.gov. The Company undertakes no obligation to update these statements for revisions or changes after the date of this release, except as required by law.

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