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**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 July 2024**

**Commission File Number 001-37626**

**Mesoblast Limited**

*(Exact name of Registrant as specified in its charter)*

**Not Applicable**

*(Translation of Registrant's name into English)*

**Australia**

*(Jurisdiction of incorporation or organization)*

**Silviu Itescu**

**Chief Executive Officer and Executive Director**

**Level 38**

**55 Collins Street**

**Melbourne 3000**

**Australia**

*(Address of principal executive offices)*

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

Form 20-F  Form 40-F

**INFORMATION CONTAINED ON THIS REPORT ON FORM 6-K**

On July 23, 2024, Mesoblast Limited filed with the Australian Securities Exchange a new release announcement, which is attached hereto as [Exhibit 99.1](#), and is incorporated herein by reference.

**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 organized.

Mesoblast Limited  
/s/ Niva Sivakumar

Niva Sivakumar  
*Company Secretary*

Dated: July 24, 2024

## INDEX TO EXHIBITS

Item

[99.1](#)

Press release of Mesoblast Ltd, dated July 23, 2024.

**asx** announcement



**FDA ACCEPTS MESOBLAST'S BIOLOGICS LICENSE APPLICATION (BLA) FOR RYONCIL® IN CHILDREN WITH STEROID-REFRACTORY ACUTE GRAFT-VERSUS-HOST DISEASE (SR-aGVHD)**

*If Approved, RYONCIL will be the First Allogeneic "Off-the-Shelf" Cellular Medicine in the US, and the First Cell Therapy for Children Up To 18 Years Old with SR-aGVHD.*

**Melbourne, Australia; July 23 and New York, USA; July 22, 2024:** Mesoblast Limited (ASX:MSB; Nasdaq:MESO), global leader in allogeneic cellular medicines for inflammatory diseases, announced that the United States Food and Drug Administration (FDA) has accepted its Biologics License Application (BLA) resubmission for Ryoncil® (remestemcel-L) in the treatment of children with steroid-refractory acute graft versus host disease (SR-aGVHD). FDA considers the resubmission to be a complete response and Mesoblast anticipates a decision on or before the FDA's Prescription Drug User Fee Act (PDUFA) goal date of January 7, 2025.

Mesoblast's resubmission on July 8, 2024 addressed remaining CMC (Chemistry, Manufacturing, and Control) items after being informed by FDA at the end of March 2024 that, following additional consideration, the available clinical data from the Phase 3 study MSB-GVHD001 appears sufficient to support submission of the proposed BLA for remestemcel-L for treatment of pediatric patients with SRaGVHD. In May 2023, FDA conducted the Pre-License Inspection (PLI) of the manufacturing process for remestemcel-L, and this did not result in the issuance of any Form 483.

"We are pleased that FDA has accepted our BLA resubmission for review, and look forward to the potential approval of RYONCIL for children with SR-aGVHD," said Mesoblast CEO Dr. Silviu Itescu.

**About Ryoncil® (remestemcel-L)**

Mesoblast's lead product candidate, Ryoncil® (remestemcel-L), is an investigational therapy comprising culture expanded mesenchymal stromal cells derived from the bone marrow of an unrelated donor. It is administered to patients in a series of intravenous infusions. RYONCIL has immunomodulatory properties which counteract the inflammatory processes that are implicated in SR-aGVHD by inhibiting activation and proliferation of effector T cells, down-regulating the production of pro-inflammatory cytokines, and enabling recruitment of anti-inflammatory cells to involved tissues.

FDA granted remestemcel-L Fast Track designation, a process to facilitate the development and expedited review of therapies for serious conditions that fill unmet medical needs, and Priority Review designation, which is given to drugs that treat a serious condition and provide a significant improvement in safety or effectiveness over existing treatments.

**About the Phase 3 Trial of Ryoncil® (remestemcel-L) in Children with Steroid-Refractory Acute Graft Versus Host Disease**

The Phase 3 Study GVHD001/002 was conducted in 54 children (89% Grade C/D) across 20 centers in the US where RYONCIL was used as the first line of treatment for children who failed to respond to steroids for acute GVHD.<sup>1</sup> The trial met its pre-specified primary endpoint, Day 28 Overall Response (OR), 70.4% versus 45%,  $p=0.0003$ . An overall response at day 28 was highly predictive of improved survival through day 100 (87% compared to 47% in patients that did not achieve day 28 OR  $p=0.0001$ ).

Compared with a matched control group of pediatric subjects from the contemporaneous database of the Mount Sinai Acute GVHD International Consortium (MAGIC) treated with best available therapy, treatment with Ryoncil achieved higher Day 28 OR (70% vs 43%) and higher Day 100 survival (74% vs 57%). A propensity-matched study of outcomes in 25 children from Mesoblast's Phase 3 trial and 27 control children who received best available treatment, including ruxolitinib, from the MAGIC database showed that 67% of high-risk children (MAP scores  $>0.29$ ) who received Ryoncil achieved a Day 28 overall response and were alive after 180 days compared to just 10% in both categories in the MAGIC group.



In addition, results of a 4-year survival study performed by the Center for International Blood and Marrow Transplant Research (CIBMTR) on 51 evaluable patients with SR-aGVHD who were enrolled in the Phase 3 trial, demonstrated durability of the survival benefits, with 67% survival at 6 months, 63% survival at 1 year, 51% at 2 years, and 49% survival through 4 years in children with expected 2 year survival of just 25-38% using best available therapy.<sup>2-4</sup>

### **About Steroid-Refractory Acute Graft Versus Host Disease**

Acute GVHD occurs in approximately 50% of patients who receive an allogeneic bone marrow transplant (BMT). Over 30,000 patients worldwide undergo an allogeneic BMT annually, primarily during treatment for blood cancers, including about 20% in pediatric patients.<sup>5,6</sup> SR-aGVHD is associated with mortality as high as 90% and significant extended hospital stay costs.<sup>7,8</sup> There are currently no FDA-approved treatments in the US for children under 12 with SR-aGVHD.

Survival outcomes have not improved over the past two decades for children or adults with the most severe forms of SR-aGVHD.<sup>2,9-10</sup> The lack of any approved treatments for children under 12 means that there is an urgent need for a therapy that improves the dismal survival outcomes in children.

### **About Mesoblast**

Mesoblast (the Company) is a world leader in developing allogeneic (off-the-shelf) cellular medicines for the treatment of severe and life-threatening inflammatory conditions. The Company has leveraged its proprietary mesenchymal lineage cell therapy technology platform to establish a broad portfolio of late-stage product candidates which respond to severe inflammation by releasing anti-inflammatory factors that counter and modulate multiple effector arms of the immune system, resulting in significant reduction of the damaging inflammatory process.

Mesoblast has a strong and extensive global intellectual property portfolio with protection extending through to at least 2041 in all major markets. The Company's proprietary manufacturing processes yield industrial-scale, cryopreserved, off-the-shelf, cellular medicines. These cell therapies, with defined pharmaceutical release criteria, are planned to be readily available to patients worldwide.

Mesoblast is developing product candidates for distinct indications based on its remestemcel-L and rexlemestrocet-L allogeneic stromal cell technology platforms. Remestemcel-L is being developed for inflammatory diseases in children and adults including steroid refractory acute graft versus host disease, and biologic-resistant inflammatory bowel disease. Rexlemestrocet-L is being developed for advanced chronic heart failure and chronic low back pain. Two products have been commercialized in Japan and Europe by Mesoblast's licensees, and the Company has established commercial partnerships in Europe and China for certain Phase 3 assets.

Mesoblast has locations in Australia, the United States and Singapore and is listed on the Australian Securities Exchange (MSB) and on the Nasdaq (MESO). For more information, please see [www.mesoblast.com](http://www.mesoblast.com), LinkedIn: Mesoblast Limited and Twitter: @Mesoblast

### **References / Footnotes**

1. Kurtzberg J. et al. A Phase 3, Single-Arm, Prospective Study of Remestemcel-L, Ex Vivo Culture-Expanded Adult Human Mesenchymal Stromal Cells for the Treatment of Pediatric Patients Who Failed to Respond to Steroid Treatment for Acute Graft-versus-Host Disease. *Biol Blood Marrow Transplant* 26 (2020) 845-854
2. Rashidi A et al. Outcomes and predictors of response in steroid-refractory acute graft-versus-host disease: single-center results from a cohort of 203 patients. *Biol Blood Bone Marrow Transplant* 2019; 25(11):2297-2302
3. MacMillan ML et al. Pediatric acute GVHD: clinical phenotype and response to upfront steroids. *Bone Marrow Transplant* 2020; 55(1): 165-171
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9. Berger M, Pessolano R, Carraro F, Saglio F, Vassallo E, Fagioli F. Steroid-refractory acute graft-versus-host disease graded III-IV in pediatric patients. A mono-institutional experience with a long-term follow-up. *Pediatric Transplantation*. 2020; 24(7):e13806
10. Biavasco F, Ihorst G, Wasch R, Wehr C, Bertz H, Finke J, Zeiser R. Therapy response of glucocorticoid-refractory acute GVHD of the lower intestinal tract. *Bone Marrow Transplantation*. 2022

### Forward-Looking Statements

This press release includes forward-looking statements that relate to future events or our future financial performance and involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to differ materially from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. We make such forward-looking statements pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995 and other federal securities laws. Forward-looking statements should not be read as a guarantee of future performance or results, and actual results may differ from the results anticipated in these forward-looking statements, and the differences may be material and adverse. Forward-looking statements include, but are not limited to, statements about: the initiation, timing, progress and results of Mesoblast's preclinical and clinical studies, and Mesoblast's research and development programs; Mesoblast's ability to advance product candidates into, enroll and successfully complete, clinical studies, including multi-national clinical trials; Mesoblast's ability to advance its manufacturing capabilities; the timing or likelihood of regulatory filings and approvals (including any future decision that the FDA may make on the BLA for remestemcel-L for pediatric patients with SR-aGVHD), manufacturing activities and product marketing activities, if any; the commercialization of Mesoblast's product candidates, if approved; regulatory or public perceptions and market acceptance surrounding the use of stem-cell based therapies; the potential for Mesoblast's product candidates, if any are approved, to be withdrawn from the market due to patient adverse events or deaths; the potential benefits of strategic collaboration agreements and Mesoblast's ability to enter into and maintain established strategic collaborations; Mesoblast's ability to establish and maintain intellectual property on its product candidates and Mesoblast's ability to successfully defend these in cases of alleged infringement; the scope of protection Mesoblast is able to establish and maintain for intellectual property rights covering its product candidates and technology; estimates of Mesoblast's expenses, future revenues, capital requirements and its needs for additional financing; Mesoblast's financial performance; developments relating to Mesoblast's competitors and industry; and the pricing and reimbursement of Mesoblast's product candidates, if approved. You should read this press release together with our risk factors, in our most recently filed reports with the SEC or on our website. Uncertainties and risks that may cause Mesoblast's actual results, performance or achievements to be materially different from those which may be expressed or implied by such statements, and accordingly, you should not place undue reliance on these forward-looking statements. We do not undertake any obligations to publicly update or revise any forward-looking statements, whether as a result of new information, future developments or otherwise.

Release authorized by the Chief Executive.

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