

ASX RELEASE

26 April 2023

## QUARTERLY ACTIVITY REPORT AND APPENDIX 4C

4DS Memory Limited (ASX:4DS) (**4DS**) (the **Company**), is pleased to provide its Quarterly Activity Report and Appendix 4C for the Quarter ended 31 March 2023.

### **Director Resignation**

On 6 February 2023 4DS announced the resignation of Drs. Wilbert van den Hoek as Executive Chairman of the Company.

On the same day the Board appointed Executive Director Mr David McAuliffe as Interim Executive Chairman whilst the Company undertakes a search for a USA based Chairman. That search remains ongoing.

### **Renewed Technical Progress Update**

On 27 February 4DS provided shareholders with information regarding renewed technical progress.

In an ASX announcement released on 5 October 2022, 4DS stated that the etch process had induced damage to the crystallinity of the 4DS PCMO layer resulting in the write voltage needed to program the cell exceeding the write voltage that the circuitry of the imec megabit memory array could provide. Since prior wafers had shown successful programming of cells of the same size as present in the megabit memory array, the focus would be on further optimizing the etch process to ensure both residue-free etching and no crystalline damage to the 4DS PCMO layer.

In the same ASX announcement, 4DS stated that the goal of the next Platform Lot remained the demonstration of the cell operation in a megabit memory array environment and to explore optimized programming conditions to improve both the endurance and retention of 4DS Interface Switching ReRAM cells. Access to the write circuitry of the megabit memory array remains critical to achieving these goals.

Since that ASX announcement on 5 October 2022, 4DS informed shareholders the Company had undertaken a number of optimization changes which have now been incorporated into the schedule for manufacturing of the Fourth Platform Lot at imec.

During the same period the Company significantly enhanced its test capabilities and re-tested the Third Platform Lot in preparation for the Fourth Platform Lot.

The Company reported that it has now achieved cell operation in the megabit memory array of the Third Platform Lot utilising the improved test capabilities. This allowed further exploration of optimized programming conditions with the access transistors and write circuitry of imec's megabit memory platform.

Results indicated that the 4DS Interface Switching ReRAM cells are potentially more likely to be compatible with imec's megabit memory platform which de-risks the testing of the Fourth Platform Lot which is expected to be received by 4DS in late Q2 2023 as previously guided.

### **4DS Granted 34<sup>th</sup> USA Patent**

On 8 March 2023 the Company announced the granting of an additional USA patent. Details of the USA patent grant are as follows: Conductive Amorphous Oxide Contact Layers – USA Patent Number 11,600,775.

### **COVID-19 Update**

Currently, there are no COVID related restrictions significantly affecting the Company's operations in the USA or Belgium. All 4DS employees are fully vaccinated.

## Financial Review

On 23 March 2023, the Company completed a \$5.5 million Placement (before costs) at an issue price of \$0.036 per share to domestic and international institutions and high net worth investors. Participants in the Placement received a free attaching option for every two shares subscribed, exercisable at \$0.055 each and expiring on 31 March 2026.

The proceeds of the Placement are to be used to complete the manufacture and analysis of the Fourth Platform Lot, for ongoing development of the Company's technologies and for working capital.

As of 31 March 2023, the Company held cash of \$6.541 million, compared to \$3.359 million as of 31 December 2022. Net cash of \$1.938 million was used in operating activities during the quarter, an increase of \$1.017 million when compared to \$0.921 million used in the December quarter. The main difference, when compared to the previous quarter, was an increase in R&D expenditures due to three payments to imec during the quarter compared to no payments to imec in the December quarter.

## Listing Rule 4.7.C

In item 6 of the Appendix 4C cash flow report for the quarter, payments to related parties of approximately \$172k represent salaries paid to the former Executive Chair, the Interim Executive Chairman and Director fees paid to the Non-Executive Directors, including advisory fees paid to the US based Non-Executive Director.

## 4DS Interactive Investor Hub

If you have any questions on this announcement or any past 4DS announcements, check out our Investor Hub. Like, comment, ask a question and view video summaries on important announcements. Shareholders can link through to the Investor Hub via: [announcements.4dsmemory.com](https://announcements.4dsmemory.com)

## ENDS

Authorised for release by the Board.

## Contact information

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## About 4DS

4DS Memory Limited (ASX: 4DS), with facilities located in Silicon Valley, is a semiconductor development company of non-volatile memory technology, pioneering Interface Switching ReRAM for next generation gigabyte storage in mobile and cloud. Established in 2007, 4DS owns a patented IP portfolio, comprising 34 USA patents granted which have been developed in-house to create high-density Storage Class Memory. 4DS has a joint development agreement with Western Digital subsidiary HGST, a global storage leader, which accelerates the evolution of 4DS' technology. 4DS also collaborates with imec, a world-leading research and innovation hub in nanoelectronics and digital technologies. The combination of imec's widely acclaimed leadership in microchip technology and profound software and information and communication technology expertise makes them unique.

For more information, please visit [www.4dsmemory.com](https://www.4dsmemory.com).

## Disclaimer

This release contains certain forward-looking statements that are based on the Company's management's beliefs, assumptions and expectations and on information currently available to management. Such forward looking statements involve known and unknown risks, uncertainties, and other factors which may cause the actual results or performance of 4DS to be materially different from the results or performance expressed or implied by such forward looking statements. Such forward looking statements are based on numerous assumptions regarding the Company's present and future business strategies and the political and economic environment in which 4DS will operate in the future, which are subject to change without notice. Past performance is not necessarily a guide to future performance and no representation or warranty is made as to the likelihood of achievement or reasonableness of any forward-looking statements or other forecast. To the full extent permitted by law, 4DS and its directors, officers, employees, advisers, agents and intermediaries disclaim any obligation or undertaking to release any updates or revisions to information to reflect any change in any of the information contained in this release (including, but not limited to, any assumptions or expectations set out in the release).

You should not place undue reliance on these forward- looking statements. Except as required by law or regulation (including the ASX Listing Rules) we undertake no obligation to update these forward- looking statements.

## Appendix 4C

### Quarterly cash flow report for entities subject to Listing Rule 4.7B

**Name of entity**

4DS MEMORY LIMITED (4DS)

**ABN**

43 145 590 110

**Quarter ended ("current quarter")**

31 March 2023

<b>Consolidated statement of cash flows</b>	<b>Current quarter \$A'000</b>	<b>Year to date (9 months) \$A'000</b>
<b>1. Cash flows from operating activities</b>		
1.1 Receipts from customers	-	-
1.2 Payments for		
(a) research and development	(1,539)	(2,696)
(b) business development	(39)	(116)
(c) production	-	-
(d) staff and board remuneration	(113)	(279)
(e) administration and corporate costs	(251)	(746)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	7	22
1.5 Interest and other costs of finance paid	(3)	(10)
1.6 Income taxes paid	-	-
1.7 Government grants and tax incentives	-	-
1.8 Other Income	-	-
<b>1.9 Net cash from / (used in) operating activities</b>	<b>(1,938)</b>	<b>(3,825)</b>

<b>2. Cash flows from investing activities</b>		
2.1 Payments to acquire:		
(a) entities	-	-
(b) businesses	-	-
(c) property, plant and equipment	-	-
(d) investments	-	-
(e) intellectual property	-	-
(f) other non-current assets	-	-

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
2.2 Proceeds from disposal of:		
(a) entities	-	-
(b) businesses	-	-
(c) property, plant and equipment	-	-
(d) investments	-	-
(e) intellectual property	-	-
(f) other non-current assets	-	-
2.3 Cash flows from loans to other entities	-	-
2.4 Dividends received (see note 3)	-	-
2.5 Other (provide details if material)	-	-
<b>2.6 Net cash from / (used in) investing activities</b>	<b>-</b>	<b>-</b>

<b>3. Cash flows from financing activities</b>		
3.1 Proceeds from issues of equity securities (excluding convertible debt securities)	5,500	5,500
3.2 Proceeds from issue of convertible debt securities	-	-
3.3 Proceeds from exercise of options	-	96
3.4 Transaction costs related to issues of equity securities or convertible debt securities	(336)	(353)
3.5 Proceeds from borrowings (Refer 7.6)	-	-
3.6 Repayment of borrowings (Insurance Premium)	-	-
3.7 Transaction costs related to loans and borrowings	-	-
3.8 Dividends paid	-	-
3.9 Other – principal elements of lease payments	(36)	(97)
<b>3.10 Net cash from / (used in) financing activities</b>	<b>5,128</b>	<b>5,146</b>

<b>4. Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1 Cash and cash equivalents at beginning of period	3,359	5,234
4.2 Net cash from / (used in) operating activities (item 1.9 above)	(1,938)	(3,825)
4.3 Net cash from / (used in) investing activities (item 2.6 above)	5,128	5,146

## Quarterly cash flow report for entities subject to Listing Rule 4.7B

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	-
4.5	Effect of movement in exchange rates on cash held	(8)	(14)
<b>4.6</b>	<b>Cash and cash equivalents at end of period</b>	<b>6,541</b>	<b>6,541</b>

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	6,521	3,339
5.2	Call deposits	20	20
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
<b>5.5</b>	<b>Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b>	<b>6,541</b>	<b>3,359</b>

**6. Payments to related parties of the entity and their associates**

- 6.1 Aggregate amount of payments to related parties and their associates included in item 1
- 6.2 Aggregate amount of payments to related parties and their associates included in item 2

**Current quarter  
\$A'000**

172

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Fees paid to former Executive Chair (\$19k), the Interim Executive Chair (\$79k) and Non-Executive Directors (\$74k), including advisory fees paid to the US based Non-Executive Director.

**7. Financing facilities**

*Note: the term "facility" includes all forms of financing arrangements available to the entity.*

*Add notes as necessary for an understanding of the sources of finance available to the entity.*

	Total facility amounts at quarter end \$A'000	Amount drawn at quarter end \$A'000
7.1 Loan facilities	-	-
7.2 Credit standby arrangements	-	-
7.3 Other (Insurance Premium Funding)	-	-
<b>7.4 Total financing facilities</b>	-	-

7.5 **Unused financing facilities available at quarter end** -

7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.

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<b>8. Estimated cash available for future operating activities</b>	<b>\$A'000</b>
8.1 Net cash from / (used in) operating activities (item 1.9)	(1,938)
8.2 Cash and cash equivalents at quarter end (item 4.6)	6,541
8.3 Unused finance facilities available at quarter end (item 7.5)	-
8.4 Total available funding (Item 8.2 + item 8.3)	6,541
<b>8.5 Estimated quarters of funding available (item 8.4 divided by item 8.1)</b>	<b>3.37</b>

*Note: if the entity has reported positive net operating cash flows in item 1.9, answer item 8.5 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.5.*

8.6 If item 8.5 is less than 2 quarters, please provide answers to the following questions:

8.6.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

Answer: N/A

8.6.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?

Answer: N/A

8.6.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

Answer: N/A

*Note: where item 8.5 is less than 2 quarters. All of questions 8.6.1, 8.6.2 and 8.6.3 above must be answered.*

## Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 26 April 2023

Authorised by: The Board of 4DS Memory Limited  
(Name of body or officer authorising release – see note 4)

## Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standard applies to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.