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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM 6-K**

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

For the month of May 2017

Commission File Number: 001-36515

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**Materialise NV**

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Technologielaan 15  
3001 Leuven  
Belgium  
(Address of principal executive office)

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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

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

This Form 6-K is incorporated by reference into the registrant's Registration Statement on Form F-3 (File No. 333-213649).

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## First Quarter 2017 Financial Results

Except as otherwise required by the context, references to “Materialise,” “Company,” “we,” “us” and “our” are to Materialise NV and its subsidiaries.

### First Quarter 2017 Results

Total revenue for the first quarter of 2017 increased 19.7% to 31,921 kEUR compared to 26,667 kEUR for the first quarter of 2016, with gains in all three of our segments, particularly Materialise Manufacturing.

Revenue from our Materialise Software segment, which offers a proprietary software backbone that enables and enhances the functionality of 3D printers and 3D printing operations worldwide, increased 15.4% to 8,575 kEUR for the first quarter of 2017 from 7,431 kEUR for the same quarter last year. Recurrent revenues from annual and renewed licenses and maintenance fees grew 22.3% from the same period in the prior year.

Revenue from our Materialise Medical segment, which offers a unique platform consisting of medical planning and design software, clinical engineering services and patient specific devices, increased 15.4% to 9,932 kEUR for the first quarter of 2017 compared to 8,606 kEUR for the same period in 2016. Compared to the same quarter in 2016, revenues from our medical software grew 16.0%, and revenues from our collaborated medical device business and from direct sales of complex surgery solutions each grew 15.0%.

Revenue from our Materialise Manufacturing segment, which offers an integrated suite of 3D printing and engineering services to industrial and commercial customers, increased 26.4% to 13,407 kEUR for the first quarter of 2017 from 10,606 kEUR for the first quarter of 2016. End part manufacturing revenues increased 35.0% compared to the first quarter of 2016.

Gross profit was 18,477 kEUR, or 57.9 % of total revenue, for the first quarter of 2017 compared to 15,962 kEUR, or 59.9 % of total revenue, for the first quarter of 2016. The decrease in the gross profit margin was primarily a result of increased production of medical devices and implants, involving higher cost of production.

Research and development (“R&D”), sales and marketing (“S&M”) and general and administrative (“G&A”) expenses increased, in the aggregate, 7.4% to 19,579 kEUR for the first quarter of 2017 from 18,237 kEUR for the first quarter of 2016. R&D expenses increased from 4,372 kEUR to 4,592 kEUR while S&M expenses increased from 8,815 kEUR to 9,608 kEUR. G&A expenses increased from 5,050 kEUR to 5,379 kEUR.

Net other operating income decreased by (268) kEUR to 1,018 kEUR compared to 1,286 kEUR for the first quarter of 2016. Net other operating income consists primarily of withholding tax exemptions for qualifying researchers, development grants, partial funding of R&D projects and currency exchange results on purchase and sales transactions.

Operating loss improved to (84) kEUR from (989) kEUR for the same period in the prior year. This improvement was the result of a combination of an increase in gross profit of 15.8% and an increase of only 7.4% in R&D, S&M and G&A expenses, which were partially offset by a slight decrease of (268) kEUR of net other operating income compared to the same quarter in 2016.

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Net financial result was (142) kEUR compared to (734) kEUR for the prior-year period, reflecting smaller variances in the currency exchange rates, primarily on the portion of the Company's IPO proceeds held in U.S. dollars versus the euro.

Net loss for the first quarter of 2017 was (816) kEUR compared to net loss of (3,151) kEUR for the same period in 2016. The 2016 period contained income tax expense of 1,260 kEUR primarily from deferred taxes compared to income tax expense of 201 kEUR this quarter. The decrease in the net loss for the first quarter of 2017 was primarily attributable to this variance of 1,059 kEUR in income tax, as well as an increase in the financial result of 592 kEUR and the decrease in operating loss by 905 kEUR, which were partially offset by an increase of 221 kEUR in the share in the loss of a joint venture. Total comprehensive loss for the first quarter of 2017, which includes exchange differences on translation of foreign operations, was 694 kEUR compared to 4,115 kEUR for the same period in 2016.

Adjusted EBITDA (a non-IFRS financial measure defined below) increased to 2,813 kEUR from 1,135 kEUR as a result of the combination of continued revenue growth (19.7%) and a significantly lower increase in operational expenses (7.4%) as compared to the first quarter in 2016. The Adjusted EBITDA margin (Adjusted EBITDA divided by total revenue) in the first quarter was 8.8% compared to 4.3% in the first quarter of 2016.

Our Materialise Software segment's EBITDA rose to 2,993 kEUR from 2,765 kEUR while the segment EBITDA margin (the segment's EBITDA divided by the segment's revenue) was 34.9% compared to 37.2% in the prior-year period.

Our Materialise Medical segment's EBITDA was 314 kEUR compared to (530) kEUR while the segment EBITDA margin increased to 3.2% from (6.2)% in the first quarter of 2016.

Our Materialise Manufacturing segment's EBITDA rose to 1,322 kEUR from 257 kEUR while the segment EBITDA margin increased to 9.9% from 2.4% for the same quarter in 2016.

At March 31, 2017, we had cash and equivalents of 55,071 kEUR compared to 55,912 kEUR at December 31, 2016. Cash flow from operating activities in the first quarter of 2017 was 1,603 kEUR compared to 1,376 kEUR in the same period in 2016.

Net shareholders' equity at March 31, 2017 was 78,585 kEUR compared to 79,033 kEUR at December 31, 2016.

#### **Non-IFRS Measures**

Materialise uses EBITDA and Adjusted EBITDA as supplemental financial measures of its financial performance. EBITDA is calculated as net profit plus income taxes, financial expenses (less financial income), shares of loss in a joint venture and depreciation and amortization. Adjusted EBITDA is determined by adding non-cash stock-based compensation expenses to EBITDA. Management believes these non-IFRS measures to be important measures as they exclude the effects of items that primarily reflect the impact of long-term investment and financing decisions, rather than the performance of the Company's day-to-day operations. As compared to net profit, these measures are limited in that they do not reflect the periodic costs of certain capitalized tangible and intangible assets used in generating

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revenues in the Company's business, or the charges associated with impairments. Management evaluates such items through other financial measures such as capital expenditures and cash flow provided by operating activities. The Company believes that these measurements are useful to measure a company's ability to grow or as a valuation measurement. The Company's calculation of EBITDA and Adjusted EBITDA may not be comparable to similarly titled measures reported by other companies. EBITDA and Adjusted EBITDA should not be considered as alternatives to net profit or any other performance measure derived in accordance with IFRS. The Company's presentation of EBITDA and Adjusted EBITDA should not be construed to imply that its future results will be unaffected by unusual or non-recurring items.

### **Exchange Rate**

This document contains translations of certain euro amounts into U.S. dollars at specified rates solely for the convenience of readers. Unless otherwise noted, all translations from euros to U.S. dollars in this document were made at a rate of EUR 1.00 to USD 1.0691, the reference rate of the European Central Bank on March 31, 2017.

### **About Materialise**

Materialise incorporates more than 25 years of 3D printing experience into a range of software solutions and 3D printing services, through which Materialise seeks to form the backbone of the 3D printing industry. Materialise's open and flexible solutions enable players in a wide variety of industries, including healthcare, automotive, aerospace, art and design, and consumer goods, to build innovative 3D printing applications that aim to make the world a better and healthier place. Headquartered in Belgium, with branches worldwide, Materialise combines one of the largest groups of software developers in the industry with one of the largest 3D printing facilities in the world. For additional information, please visit: [www.materialise.com](http://www.materialise.com).

## Consolidated income statement (Unaudited)

(in thousands, except per share amounts)	For the three months ended 31 March		
	2017	2017	2016
	U.S.\$	€	€
Revenue	34,127	31,921	26,667
Cost of sales	(14,373)	(13,444)	(10,705)
<b>Gross profit</b>	<b>19,754</b>	<b>18,477</b>	<b>15,962</b>
Gross profit as % of revenue	58%	58%	60%
Research and development expenses	(4,909)	(4,592)	(4,372)
Sales and marketing expenses	(10,272)	(9,608)	(8,815)
General and administrative expenses	(5,751)	(5,379)	(5,050)
Net other operating income (expenses)	1,088	1,018	1,286
<b>Operating (loss) profit</b>	<b>(90)</b>	<b>(84)</b>	<b>(989)</b>
Financial expenses	(983)	(919)	(897)
Financial income	831	777	163
Share in loss of joint venture	(416)	(389)	(168)
<b>(Loss) profit before taxes</b>	<b>(658)</b>	<b>(615)</b>	<b>(1,891)</b>
Income taxes	(215)	(201)	(1,260)
<b>Net (loss) profit of the period</b>	<b>(873)</b>	<b>(816)</b>	<b>(3,151)</b>
Net (loss) profit attributable to:			
The owners of the parent	(873)	(816)	(3,151)
Non-controlling interest	–	–	–
<b>Earnings per share attributable to ordinary owners of the parent</b>			
Basic	(0.02)	(0.02)	(0.07)
Diluted	(0.02)	(0.02)	(0.07)
Weighted average basic shares outstanding	47,325	47,325	47,325
Weighted average diluted shares outstanding	47,325	47,325	47,325

## Consolidated statements of comprehensive income (Unaudited)

(in thousands)	For the three months ended 31 March		
	2017	2017	2016
	U.S.\$	€	€
<b>Net profit (loss) for the period</b>	<b>(873)</b>	<b>(816)</b>	<b>(3,151)</b>
Other comprehensive income			
Exchange difference on translation of foreign operations	130	122	(964)
Other comprehensive income (loss), net of taxes	130	122	(964)
<b>Total comprehensive income (loss) for the period, net of taxes</b>	<b>(743)</b>	<b>(694)</b>	<b>(4,115)</b>
Total comprehensive income (loss) attributable to:			
The owners of the parent	(743)	(694)	(4,115)
Non-controlling interest	—	—	—

## Consolidated statement of financial position (Unaudited)

(in thousands)	<u>As of March 31</u> <u>2017</u> €	<u>As of</u> <u>December 31</u> <u>2016</u> €
<b>Assets</b>		
<b>Non-current assets</b>		
Goodwill	8,897	8,860
Intangible assets	9,468	9,765
Property, plant & equipment	52,238	45,063
Investments in joint ventures	111	–
Deferred tax assets	276	336
Other non-current assets	2,309	2,154
<b>Total non-current assets</b>	<b>73,299</b>	<b>66,178</b>
<b>Current assets</b>		
Inventories	8,267	7,870
Trade receivables	30,507	27,479
Held to maturity investments	–	–
Other current assets	4,691	4,481
Cash and cash equivalents	55,071	55,912
<b>Total current assets</b>	<b>98,536</b>	<b>95,742</b>
<b>Total assets</b>	<b>171,835</b>	<b>161,920</b>

(in thousands)	<u>As of March 31</u>	<u>As of</u>
	<u>2017</u>	<u>December 31</u>
	€	€
<b>Equity and liabilities</b>		
<b>Equity</b>		
Share capital	2,729	2,729
Share premium	79,263	79,019
Consolidated reserves	(2,417)	(1,603)
Other comprehensive income	(990)	(1,112)
<b>Equity attributable to the owners of the parent</b>	<b>78,585</b>	<b>79,033</b>
Non-controlling interest	–	–
<b>Total equity</b>	<b>78,585</b>	<b>79,033</b>
<b>Non-current liabilities</b>		
Loans & borrowings	34,982	28,267
Deferred tax liabilities	1,256	1,325
Deferred income	3,942	3,588
Other non-current liabilities	2,026	1,873
<b>Total non-current liabilities</b>	<b>42,206</b>	<b>35,053</b>
<b>Current liabilities</b>		
Loans & borrowings	6,426	5,539
Trade payables	13,743	13,400
Tax payables	874	926
Deferred income	19,607	17,822
Other current liabilities	10,394	10,147
<b>Total current liabilities</b>	<b>51,044</b>	<b>47,834</b>
<b>Total equity and liabilities</b>	<b>171,835</b>	<b>161,920</b>

## Consolidated statement of cash flows (Unaudited)

(in thousands)	For the three months ended March 31	
	2017	2016
	€	€
<b>Operating activities</b>		
Net (loss) profit of the period	(816)	(3,151)
<i>Non-cash and operational adjustments</i>		
Depreciation of property, plant & equipment	1,945	1,448
Amortization of intangible assets	623	462
Share-based payment expense	329	214
Loss (gain) on disposal of property, plant & equipment	(2)	–
Movement in provisions	4	–
Movement reserve for bad debt	122	42
Financial income	(136)	(48)
Financial expense	359	254
Impact of foreign currencies	(81)	528
Share in loss of a joint venture (equity method)	389	168
Deferred tax expense (income)	1	868
Income taxes	203	358
Other	(72)	–
<b>Working capital adjustment &amp; income tax paid</b>		
Increase in trade receivables and other receivables	(3,452)	(285)
Decrease (increase) in inventories	(406)	215
Increase in trade payables and other payables	2,729	421
Income tax paid	(136)	(118)
<b>Net cash flow from operating activities</b>	<b>1,603</b>	<b>1,376</b>

(in thousands)	For the three months ended March 31	
	2017	2016
	€	€
<b>Investing activities</b>		
Purchase of property, plant & equipment	(7,507)	(1,325)
Purchase of intangible assets	(327)	(265)
Proceeds from the sale of property, plant & equipment (net)	70	85
Investments in joint-ventures	(500)	–
Interest received	108	3
<b>Net cash flow used in investing activities</b>	<b>(8,156)</b>	<b>(1,502)</b>
<b>Financing activities</b>		
Proceeds from loans & borrowings	7,710	604
Repayment of loans & borrowings	(756)	(656)
Repayment of finance leases	(728)	(419)
Interest paid	(152)	(141)
Other financial income (expense)	(166)	(33)
<b>Net cash flow from (used in) financing activities</b>	<b>5,908</b>	<b>(645)</b>
<b>Net increase of cash &amp; cash equivalents</b>	<b>(645)</b>	<b>(771)</b>
Cash & cash equivalents at beginning of the period	55,912	50,726
Exchange rate differences on cash & cash equivalents	(196)	(520)
<b>Cash &amp; cash equivalents at end of the period</b>	<b>55,071</b>	<b>49,435</b>

## Reconciliation of Net Profit (Loss) to EBITDA and Adjusted EBITDA (Unaudited)

(in thousands)	For the three months ended 31 March	
	2017	2016
	€	€
<b>Net profit (loss) for the period</b>	<b>(816)</b>	<b>(3,151)</b>
Income taxes	201	1,260
Finance expenses	919	897
Finance income	(777)	(163)
Share in loss of joint venture	389	168
Depreciation and amortization	2,568	1,910
<b>EBITDA</b>	<b>2,484</b>	<b>921</b>
Non-cash stock-based compensation expense (1)	329	214
<b>ADJUSTED EBITDA</b>	<b>2,813</b>	<b>1,135</b>

(1) Non-cash stock-based compensation expenses represent the cost of equity-settled and cash-settled share-based payments to employees.

## Segment P&L (Unaudited)

(in thousands)	<u>Materialise Software</u> €	<u>Materialise Medical</u> €	<u>Materialise Manufact- uring</u> €	<u>Total segments</u> €	<u>Unallocated</u> €	<u>Consoli- dated</u> €
<b>For the three months ended March 31, 2017</b>						
Revenues	8,575	9,932	13,407	31,914	8	31,922
Segment EBITDA	2,993	314	1,322	4,629	(2,145)	2,484
Segment EBITDA %	34.9%	3.2%	9.9%	14.5%		7.8%
<b>For the three months ended March 31, 2016</b>						
Revenues	7,431	8,606	10,606	26,643	24	26,667
Segment EBITDA	2,765	(530)	257	2,492	(1,571)	921
Segment EBITDA %	37.2%	-6.2%	2.4%	9.4%		3.5%

## Reconciliation of Net Profit (Loss) to Segment EBITDA (Unaudited)

(in thousands)	For the three months ended 31 March	
	2017	2016
	€	€
<b>Net profit (loss) for the period</b>	<b>(816)</b>	<b>(3,151)</b>
Income taxes	201	1,260
Finance cost	919	897
Finance income	(777)	(163)
Share in loss of joint venture	<b>389</b>	<b>168</b>
	-	-
<b>Operating profit</b>	<b>(84)</b>	<b>(989)</b>
Depreciation and amortization	2,568	1,910
Corporate research and development	509	567
Corporate headquarter costs	2,073	1,738
Other operating income (expense)	(437)	(734)
<b>Segment EBITDA</b>	<b>4,629</b>	<b>2,492</b>

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**SIGNATURE**

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.

MATERIALISE NV

By: /s/ Wilfried Vancraen

Name: Wilfried Vancraen

Title: Chief Executive Officer

Date: May 9, 2017