## Nike, Inc.: Cost of Capital

On July 5, 2001, Kimi Ford, a portfolio manager at NorthPoint Group, a mutual fund management firm, pored over analyst write-ups of Nike, Inc., the athletic shoe manufacturer. Nike's share price had declined significantly from the start of the year. Kimi was considering buying some shares for the fund she managed, the NorthPoint Large-Cap Fund, which invested mostly in Fortune 500 companies with an emphasis on value investing. Its top holdings included ExxonMobil, General Motors, McDonald's, 3M and other large-cap, generally old-economy stocks. While the stock market declined over the last 18 months, NorthPoint Large-Cap had performed extremely well. In 2000, the fund earned a return of 20.7 percent even as the S&P 500 fell 10.1 percent. The fund's year-to-date returns at the end of June, 2001 stood at 6.4 percent versus the S&P 500's minus 7.3 percent.

Only a week ago, on June 28, 2001, Nike held an analysts' meeting to disclose its fiscal year 2001 results<sup>1</sup>. However, the meeting had another purpose: Nike management wanted to communicate a strategy for revitalizing the company. Since 1997, Nike's revenues had plateaued at around \$9 billion, while net income had fallen from almost \$800 million to \$580 million (see **Exhibit 1**). Nike's market share in U.S. athletic shoes had fallen from 48 percent in 1997 to 42 percent in 2000.<sup>2</sup> In addition, recent supply-chain issues and the adverse effect of a strong dollar had negatively affected revenue.

At the meeting, management revealed plans to address both top-line growth and operating performance. To boost revenue, the company would develop more athletic shoe products in the mid-priced segment<sup>3</sup> – a segment that it had overlooked in recent years. Nike also planned to push its apparel line, which, under the recent leadership of industry veteran Mindy Grossman<sup>4</sup> had performed extremely well. On the cost side, Nike would exert more effort on expense control. Finally, company executives reiterated their long-term revenue growth targets of 8-10 percent, and earnings growth targets of above 15 percent.

<sup>2</sup> Robson, Douglas, "Just Do...Something: Nike's insularity and foot-dragging have it running in place", *Business Week*, July 2, 2001

This case was prepared from publicly available information by Jessica Chan under the supervision of Professor Robert F. Bruner. The financial support of the Batten Institute is gratefully acknowledged. This case was written as a basis for class discussion rather than to illustrate effective or ineffective handling of an administrative situation. Copyright © 2001 by the University of Virginia Darden School Foundation, Charlottesville, VA. All rights reserved. To order copies, send an e-mail to dardencases@virginia.edu. No part of this publication may be reproduced, stored in a retrieval system, used in a spreadsheet, or transmitted in any form or by any means—electronic, mechanical, photocopying, recording, or otherwise—without the permission of the Darden School Foundation.

<sup>&</sup>lt;sup>1</sup> Nike's fiscal year ended in May.

<sup>&</sup>lt;sup>3</sup> Sneakers in this segment sold for \$70-\$90 a pair.

<sup>&</sup>lt;sup>4</sup> Mindy Grossman joined Nike in September 2000. She was the former president and chief executive of Jones Apparel Group's Polo Jeans division.

Analyst reactions were mixed. Some thought the financial targets to be too aggressive; others saw significant growth opportunities in apparel and in Nike's international businesses.

-2-

Kimi Ford read all the analyst reports that she could find about the June 28 meeting, but the reports gave her no clear guidance: a Lehman Brothers report recommended a 'Strong Buy' while UBS Warburg and CSFB analysts expressed misgivings about the company and recommended a 'Hold'. Kimi decided instead to develop her own discounted-cash-flow forecast to come to a clearer conclusion.

Her forecast showed that at a discount rate of 10 percent, Nike was overvalued at its current share price of \$42.09 (see **Exhibit 2**). However, she had done a quick sensitivity analysis that revealed Nike was *under*valued at discount rates below 9.4 percent. Since she was about to go into a meeting, she requested her new assistant, Joanna Cohen, to estimate Nike's cost of capital.

Joanna immediately gathered all the data she thought she might need (**Exhibits 1 through 4**) and set out to work on her analysis. At the end of the day, she submitted her cost of capital estimate and a memo (**Exhibit 5**) explaining her assumptions to Ms. Ford.

Exhibit 1

Nike, Inc.: Cost of Capital

# **Consolidated Income Statements**

Year Ended May 31	1995	1996	1997	1998	1999	2000	2001
(In millions except per share data)							
Revenues	4,760.8	6,470.6	9,186.5	9,553.1	8,776.9	8,995.1	9,488.8
Cost of goods sold	2,865.3	3,906.7	5,503.0	6,065.5	5,493.5	5,403.8	5,784.9
Gross profit	1,895.6	2,563.9	3,683.5	3,487.6	3,283.4	3,591.3	3,703.9
Selling and administrative	1,209.8	1,588.6	2,303.7	2,623.8	2,426.6	2,606.4	2,689.7
Operating income	685.8	975.3	1,379.8	863.8	856.8	984.9	1,014.2
Interest expense	24.2	39.5	52.3	60.0	44.1	45.0	58.7
Other expense, net	11.7	36.7	32.3	20.9	21.5	23.2	34.1
Restructuring charge, net	-	-	<b>/</b> -	129.9	45.1	(2.5)	-
Income before income taxes	649.9	899.1	1,295.2	653.0	746.1	919.2	921.4
Income taxes	250.2	345.9	499.4	253.4	294.7	340.1	331.7
Net income	399.7	553.2	795.8	399.6	451.4	579.1	589.7
		# V444					
Diluted earnings per common share	1.36	1.88	2.68	1.35	1.57	2.07	2.16
Average shares outstanding (diluted)	294.0	293.6	297.0	296.0	287.5	279.8	273.3
Growth (%)							
Revenue		35.9	42.0	4.0	(8.1)	2.5	5.5
Operating income		42.2	41.5	(37.4)	(0.8)	15.0	3.0
Net income		38.4	43.9	(49.8)	13.0	28.3	1.8
Margins (%)							
Gross margin		39.6	40.1	36.5	37.4	39.9	39.0
Operating margin		15.1	15.0	9.0	9.8	10.9	10.7
Net margin		8.5	8.7	4.2	5.1	6.4	6.2
Effective tax rate (%)*		38.5	38.6	38.8	39.5	37.0	36.0

<sup>\*</sup>The U.S. statutory tax rate was 35%. The state tax varied yearly from 2.5% to 3.5%.

Source: Company's 10-K SEC filing, UBS Warburg

-4- UVA-F-1353

Exhibit 2

Nike, Inc.: Cost of Capital

# **Discounted Cash Flow Analysis**

	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>
Assumptions:										
Revenue growth (%)	7.0	6.5	6.5	6.5	6.0	6.0	6.0	6.0	6.0	6.0
COGS/Sales (%)	60.0	60.0	59.5	59.5	59.0	59.0	58.5	58.5	58.0	58.0
S&A/Sales (%)	28.0	27.5	27.0	26.5	26.0	25.5	25.0	25.0	25.0	25.0
Tax rate (%)	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
Current assets/Sales (%)	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
Current liabilities/Sales (%)	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Yearly depreciation and capex equal ea	ich other.									
Cost of capital (%)	10.0									
Terminal growth rate (%)	5.0									
Discounted Cash Flow										
Operating income	1,218.4	1,351.6	1,554.6	1,717.0	1,950.0	2,135.9	2,410.2	2,554.8	2,790.1	2,957.5
Taxes	463.0	513.6	590.8	652.5	741.0	811.7	915.9	970.8	1,060.2	1,123.9
NOPAT	755.4	838.0	963.9	1,064.5	1,209.0	1,324.3	1,494.3	1,584.0	1,729.9	1,833.7
Capex, net of depreciation	-	=	-	ė. <u>-</u>	-	-	-	-	-	-
Change in NWC	8.8	(174.9)	(186.3)	(198.4)	(195.0)	(206.7)	(219.1)	(232.3)	(246.2)	(261.0)
Free cash flow	764.1	663.1	777.6	866.2	1,014.0	1,117.6	1,275.2	1,351.7	1,483.7	1,572.7
Terminal value					4					12,733.3
Total flows	764.1	663.1	777.6	866.2	1,014.0	1,117.6	1,275.2	1,351.7	1,483.7	14,306.0
Present value of flows	694.7	548.0	584.2	591.6	629.6	630.8	654.4	630.6	629.2	5,515.6
Enterprise value	11,108.8									
Less: current outstanding debt	1,296.6									
Equity value	9,812.2									
Current shares outstanding	271.5			_						
Equity value per share	\$ 36.14		Current share	price:	\$ 42.09					

Sensitivity of equity value to	
discount rate:	
Discount rate	<b>Equity value</b>
8.00%	\$ 64.02
8.50%	53.87
9.00%	46.38
9.36%	42.09
9.50%	40.65
10.00%	36.14
10.50%	32.51
11.00%	29.53
11.50%	27.04
12.00%	24.93

Exhibit 3

Nike, Inc.: Cost of Capital

# **Consolidated Balance Sheets**

	May	31,
As of	2000	2001
(In millions)		A
Assets		
Current Assets:		
Cash and equivalents	\$ 254.3	\$ 304.0
Accounts receivable	1,569.4	1,621.4
Inventories	1,446.0	1,424.1
Deferred income taxes	111.5	113.3
Prepaid expenses	215.2	162.5
Total current assets	3,596.4	3,625.3
Total carrent assets	3,370.1	3,023.3
Property, plant and equipment, net	1,583.4	1,618.8
Identifiable intangible assets and goodwill, net	410.9	397.3
Deferred income taxes and other assets	266.2	178.2
Total assets	\$ 5,856.9	\$ 5,819.6
Liabilities and shareholders' equity		
Current Liabilities:		
Current portion of long-term debt	\$ 50.1	\$ 5.4
Notes payable	924.2	855.3
Accounts payable	543.8	432.0
Accrued liabilities	621.9	472.1
Income taxes payable	-	21.9
Total current liabilities	2,140.0	1,786.7
Long-term debt	470.3	435.9
Deferred income taxes and other liabilities	110.3	102.2
Redeemable preferred stock	0.3	0.3
Shareholders' equity:		
Common stock, par	2.8	2.8
Capital in excess of stated value	369.0	459.4
Unearned stock compensation	(11.7)	(9.9)
Accumulated other comprehensive income	(111.1)	(152.1)
Retained earnings	2,887.0	3,194.3
Total shareholders' equity	3,136.0	3,494.5
Total liabilities and shareholders' equity	\$ 5,856.9	\$ 5,819.6

Source: Company 10-K SEC filing.

Exhibit 4

Nike, Inc.: Cost of Capital

# Capital Market and Financial Information On or Around July 5, 2001

#### Current yields on U.S. Treasuries

3-month	3.59%
6-month	3.59%
1-year	3.59%
5-year	4.88%
10-year	5.39%
20-year	5.74%

#### Historical Equity Risk Premiums (1926-1999)

Geometric mean 5.90% Arithmetic mean 7.50%

### Current Yield on Publicly Traded Nike Debt\*

 Coupon
 6.75% paid semi-annually

 Issued
 07/15/96

 Maturity
 07/15/21

 Current Price
 \$ 95.60

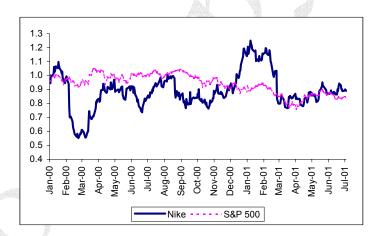
Nike Historic Betas

Nike Historic Betas	
1996	0.98
1997	0.84
1998	0.84
1999	0.63
2000	0.83
YTD 06/30/00	0.69
Average	0.80

Consensus EPS estimates:

FY 2002	FY	2003
\$ 2.32	\$	2.67

Nike Share Price Performance Relative to S&P500: January 2000 to July 5, 2001



Nike share price on July 5, 2001: \$ 42.09

**Dividend History and Forecasts** 

Paymt Dates	31-Mar	<u>30-Jun</u>	<u>30-Sep</u>	31-Dec	<u>Total</u>
1997	0.10	0.10	0.10	0.10	0.40
1998	0.12	0.12	0.12	0.12	0.48
1999	0.12	0.12	0.12	0.12	0.48
2000	0.12	0.12	0.12	0.12	0.48
2001	0.12	0.12			

Value Line Forecast of Dividend Growth from '98-00 to '04-'06: 5.50%

Sources of data: Bloomberg Financial Services, Ibbotson Associates Yearbook 1999, Value Line Investment Survey, IBES

<sup>\*</sup> Data have been modified for teaching purposes.

#### Exhibit 5

Nike, Inc.: Cost of Capital

### Joanna's Analysis

TO: Kimi Ford

FROM: Joanna Cohen

DATE: July 6, 2001

SUBJECT: Nike's Cost of Capital

Based on the following assumptions, my estimate of Nike's cost of capital is 8.3 percent:

## I. Single or Multiple Costs of Capital?

The first question I considered was whether to use single or multiple costs of capital given that Nike has multiple business segments. Aside from footwear, which makes up 62 percent of revenue, Nike also sells apparel (30 percent of revenue) that complement its footwear products. In addition, Nike sells sport balls, timepieces, eyewear, skates, bats, and other equipment designed for sports activities. Equipment products account for 3.6 percent of revenue. Finally, Nike also sells some non-Nike branded products such as Cole-Haan dress and casual footwear, and ice skates, skate blades, hockey sticks, hockey jerseys and other products under the Bauer trademark. Non-Nike brands account for 4.5 percent of revenue.

I asked myself whether Nike's business segments had different enough risks from each other to warrant different costs of capital. Were their profiles really different? I concluded that it was only the Cole-Haan line that was somewhat different; the rest were all sports-related businesses. However, since Cole-Haan makes up only a tiny fraction of revenues, I did not think it necessary to compute a separate cost of capital. As for the apparel and footwear lines, they are sold through the same marketing and distribution channels and are often marketed in "collections" of similar design. I believe they face the same risk factors, as such, I decided to compute only one cost of capital for the whole company.

# II. Methodology for Calculating the Cost of Capital: WACC

Since Nike is funded with both debt and equity, I used the Weighted Average Cost of Capital (WACC) method. Based on the latest available balance sheet, debt as a proportion of total capital makes up 27.0 percent and equity accounts for 73.0 percent:

Capital sources	<b>Book Values</b>	
Debt		
Notes payable	\$ 855.3	
Long-term debt	435.9	
C	\$ 1,291.2	→ 27.0% of total capital
Equity	\$3,494.5	→ 72.0% of total capital

#### III. Cost of Debt

My estimate of Nike's cost of debt is 4.3 percent. I arrived at this estimate by taking total interest expense for the year 2001 and dividing it by the company's average debt balance.<sup>5</sup> The rate is lower than Treasury yields but that is because Nike raised a portion of its funding needs through Japanese yen notes, which carry rates between 2.0 percent to 4.3 percent.

After adjusting for tax, the cost of debt comes out to 2.7 percent. I used a tax rate of 38 percent, which I obtained by adding state taxes of 3 percent to the U.S. statutory tax rate. Historically, Nike's state taxes have ranged from 2.5 percent to 3.5 percent.

### **IV.** Cost of Equity

I estimated the cost of equity using the Capital Asset Pricing Model (CAPM). Other methods such as the Dividend Discount Model (DDM) and the Earnings Capitalization Ratio can be used to estimate the cost of equity. However, in my opinion, the CAPM is superior method.

My estimate of Nike's cost of equity is 10.5 percent. I used the current yield on 20-year Treasury bonds as my risk-free rate, and the compound average premium of the market over Treasury bonds (5.9 percent) as my risk premium. For beta I took the average of Nike's beta from 1996 to the present.

### V. Putting it All Together

Inputting all my assumptions into the WACC formula, my estimate of Nike's cost of capital is 8.3 percent.

$$WACC = K_d (1-t) * D/(D+E) + K_e * E/(D+E)$$
= 2.7% \* 27.0% + 10.5% \* 72.0%
= 8.3%

 $<sup>^{5}</sup>$  Debt balances as of May 31, 2000 and 2001 were \$1,444.6 and \$1,291.2 respectively.

