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2 NEW YORK CITY TEACHERS' RETIREMENT SYSTEM
3 INVESTMENT MEETING
4 55 Water Street
5 New York, New York
6 March 1, 2018
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A T T E N D E E S:

8 JOHN ADLER, Chairman, Trustee
9 THOMAS BROWN, Trustee
10 DEBRA PENNY, Trustee
11 SUSANNAH VICKERS, Trustee, Comptroller's Office
12 DAVID KAZANSKY, Trustee
13 PATRICIA REILLY, Teachers' Retirement System
14 CYNTHIA COLLINS, Mayor's Office
15 SUSAN STANG, Teachers' Retirement System
16 RON SWINGLE, Teachers' Retirement System
17 MICHAEL FULVIO, Rocaton
18 ROBIN PELLICH, Rocaton
19 SHERRY CHAN, Actuary
20 THAD MCTIGUE, Teachers' Retirement System
21 VALERIE BUDZIK, Teachers' Retirement System
22 PAUL PAUCCI, Teachers' Retirement System
23 LIZ SANCHEZ, Teachers' Retirement System
24 MELVYN AARONSON, UFT

25 REPORTED BY:
26 GINAMARIE DeMARCO

0002

1 PROCEEDINGS
2 MR. ADLER: Good morning, everyone.
3 Welcome to the Teachers' Retirement System of
4 the City of the New York investment meeting for
5 March 1, 2018. Patricia, will you please call
6 role?
7 MS. REILLY: John Adler?
8 MR. ADLER: I am here.
9 MS. REILLY: Thomas Brown?
10 MR. BROWN: Here.
11 MS. REILLY: David Kazansky?
12 MR. KAZANSKY: Present.
13 MS. REILLY: Debra Penny?
14 MS. PENNY: Here.
15 MS. REILLY: Raymond Orlando?
16 MR. ADLER: Not here. He's supposed to
17 come in late.
18 MS. REILLY: Susannah Vickers?
19 MS. VICKERS: Actually here.
20 MS. REILLY: We have a quorum.
21 MR. ADLER: Thank you very much. And I'll
22 pass it over to our friends from Rocaton to take
23 us on the reporting.
24 MR. FULVIO: Good morning, everyone. So

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we thought we would start off by just very

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quickly reviewing 2017 now that the quarterly reporting has been completed. So I'm in the larger book. And we don't have to flip pages, but I was just going to note was the performance for each of the passport funds for the 2017 calendar year. The Diversified Equity Fund with the strong markets returns in the markets we saw last year. That fund was up about 21.1 percent. Roughly in line with the return of the Russell 3000 index.

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As you know, the fund also includes allocations to non-U.S. equities and defensive strategies. The benchmark we used, which included those asset classes goes up about 21.8 percent. So while the fund was in line with the broad U.S. market, it lagged a little bit that Hybrid benchmark.

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The -- yes, worth noting the particular the five year number for the Russell 3000 was up about 15.6 percent. So even when you look out beyond last year, really strong numbers for the last five years, in particular.

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So during that time period, the overall fund returned 13.4 percent. So still a strong

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PROCEEDINGS

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return. Though somewhat lagging the U.S. which over that longer term time period, you'll recall did continue to out perform non-U.S. developed in emerging markets.

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So that allocation within the Diversified Equity Funds might have helped you last year, but over the longer term, that five-year time period the fund lagged the U.S. because of that.

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And when you look at the different components within the Diversified Equity Fund, the defensive composite last year even though it didn't it keep pace with the U.S. equity markets, we're still up about 14 percent. So you saw the defense composite really capture a lot of that upmarket more than three quarters of that upmarket that we say in the U.S., which was certainly favorable.

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When we look at the international portion -- last year the international portion our composite of the Diversified Equity Fund, that was up about 27 percent last year. And that was enough to outpace the custom benchmark you have in the international equity space, which was up about 26.6 percent.

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So again, these are very large numbers and why in the first meeting of the year, last month, we talked about, again, some of the concern that we approach a market when we see numbers that are stark and so positive. It was probably the day after the meeting in February, that the market volatility really picked up where we started to see some more interesting numbers that we will talk about for sure.

Maybe very quickly I'll comment on the other passport funds. So Variable B, you're recall at the end of last year began to undergo a transition to the balanced fund.

So we weren't going to comment on the total performance of what was the bond fund just given that it was the full years worth of performance. But what I will comment on are the other passport funds. There's information on the those beginning on page 13. And really what I highlight there, as what I mentioned before, the international composite -- with the international composite. The overall international funds was up about 26.8 percent last year. Out paced a custom benchmark, which

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PROCEEDINGS

is up about 26.6 percent.

I commented earlier on the five-year time period for the Diversified Equity Fund. If you look at the three year number for the international equity fund, that fund is up about 9.5 percent over the last three years. Roughly in line with the custom benchmark.

And though it's not on page 13, I'll comment on the international equity funds five year number which is about 8.6 percent.

So again, really strong numbers over that long five year time period, relatively longer than five year time period.

The inflation protection fund during 2017, that was up about 4.1 percent. That was enough to out pace its custom benchmark up about 3.1 percent and in inflation last year. Last year it was up about 2.1 percent.

Over the longer term, that funds had more muted performance. The fund as a whole has been 1.6 percent over the last five years. That's enough to out pace it's custom benchmark which was roughly a flat return over that time period.

CPI over the last five years has averaged

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about 1.4 percent. The Socially Responsive

3 Equity fund, last year that fund was up about
4 18.3 percent. Compared to the S&P 500, that
5 was -- there was relative underperformance
6 there. The S&P was up about 21.8 percent. So
7 while the Socially Responsive fund did keep up
8 with the high double digit team returns didn't
9 quite keep pace with the S&P 500.

10 Over the last five years, that fund has
11 returned about 14.7 percent and that's lagged
12 the S&P, which was returned about 15.8 percent.

13 So I'll pause there and see if there are
14 any questions on how the funds have done in the
15 last year and longer term but we can dive in for
16 more recent numbers.

17 MS. PELLICH: Could I just make one
18 comment? If we flip back to page 3, and just
19 focus on some of these numbers, particularly for
20 the U.S. equity market. So you heard a lot of
21 numbers from Mike about the fund and the
22 passport funds and their benchmarks. But we are
23 going to have a discussion about Smart Beta
24 strategies today. And there's going to be
25 another discussion about Smart Beta tomorrow.

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1 PROCEEDINGS

2 And part of the rationale for the Smart Beta
3 discussion and part of -- the premise really
4 behind BAM's interest in adding these strategies
5 to the pension fund is the question about, what
6 level of risk are we taking on at this point in
7 the cycle in capitalization weighed benchmark.
8 So the S&P 500, the Russell 3000 are
9 capitalization weighed benchmarks. Meaning the
10 largest caps stocks are the biggest weights.

11 And if you look at some of these numbers
12 Russell 3000, the S&P 500 average returns close
13 to 16 percent for the last five years.

14 Fairly high PE ratios. Yes, there's
15 economic growth, but we've had sustained --
16 pretty sustained above expectation returns. And
17 at some point this is going to turn over. And
18 we have no crystal ball. No one has a crystal
19 ball. And it's not clear whether it will turn
20 over abruptly, or whether it will be just a slow
21 degradation of returns. But this level of
22 return of is clearly unsustainable. And so
23 that's why we diversify it to things like
24 non-U.S. and emerging markets. But also into
25 strategies that aren't capitalization weighted.

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1 PROCEEDINGS

2 So one of -- the basis for actively
3 managed strategies and -- which Smart Beta is a
4 category of actively managed strategies -- is

5 the capitalization weighed benchmarks have done
6 so well, and over this time period better than
7 most managers in both style categories. That
8 maybe we should be looking at something a little
9 bit different for the next three to five years,
10 because it may be the case that these
11 capitalization -- these largest cap stocks are
12 so fully priced that the expect of return going
13 forward over the next three to five years may be
14 lower than we want. And I think for our outlook
15 for the ten-year period our U.S. equity outlook
16 is --

17 MR. FULVIO: 4.7 percent.

18 MS. PELLICH: So a little bit under 5
19 percent. So we're trying -- so the Smart Beta
20 strategy all of the active management
21 recommendations are based on the premise that
22 U.S. equity returns are going to be lower over
23 the next five years -- or likely to be lower
24 over the next five years than they were over the
25 past five years. And can we do something, even

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1 PROCEEDINGS

2 around the edges that marginally approves that
3 single digit return.

4 MR. ADLER: Any other questions or
5 comments on the performance report?

6 [No response.]

7 MR. ADLER: Do you want to talk about
8 February for a minute?

9 MR. FULVIO: So maybe -- let me spend two
10 minutes just on January.

11 MS. PELLICH: Let's just enjoy the moment.

12 MR. FULVIO: So as you'll recall when we
13 were here last month, we talked about January
14 markets continued to be gang busters. The U.S.
15 equity market as a whole is up about 5 and a
16 quarter percent. The Diversified Equity Fund
17 during the month of January was able to keep
18 pace about 5 percent.

19 So another strong month on the heels of
20 what's been a very strong environment as we've
21 discuss. What contributed to the 5 percent
22 returns? Well, there were strong returns in
23 non-U.S. markets as well as U.S. equity markets.
24 Both of those have contributed to the
25 performance of the Diversified Equity Fund, the

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1 PROCEEDINGS

2 defensive strategies composite also was up about
3 3 percent.

4 So while that detractive a little bit from
5 the relative results of Variable A, that's
6 certainly -- the positive performance there is

7 certainly helpful.

8 Taking a step back I'm going to look a
9 little bit at some of the other funds. You can
10 see the balance funds was one of the newer
11 funds -- which was the new fund that lunched the
12 beginning of the year. That was up about 1.26
13 percent in the month of January. The
14 international equity fund up about 5 percent.
15 So again, really strong returns.

16 The Inflation Protection Fund marked there
17 was a little bit softer in January. You'll
18 recall that that fund hold a variety of asset
19 classes including commodities, banks loans,
20 tips, real estate securities. And so there the
21 market was a little bit more mixed with the
22 modestly positive return with about 0.17
23 percent.

24 And then finally, the Socially Responsive
25 of Equity Fund, that was up about 5 and half

0012

1 PROCEEDINGS

2 percent in January. Where the S&P was about 5.7
3 percent.

4 So we got the year started off on the
5 right foot and then it was beginning, I want to
6 say the first day of some really noticeable
7 market volatility was February 2nd.

8 So you right recall big headlines with
9 regard to vicks flowing through what would have
10 been really quiet levels for quite some time.
11 And if you -- it was interesting, there's was a
12 lot going on in the first two weeks of February.
13 And that you had -- let's say you fell asleep at
14 the end of last year, and woke up in the middle
15 of February, it would have been as nothing had
16 happened.

17 So it was very interesting what were down
18 days to the tune of 3, 4, 5 percent in some
19 markets. But at the end of the day, if you
20 looked back at the beginning of the year there
21 wasn't much to write home about.

22 So this report which -- the preliminary
23 report, you'll note that it's actually through
24 Tuesday. But I'll comment a little bit on how
25 yesterday impacts this.

0013

1 PROCEEDINGS

2 The main take away was, yesterday was a
3 down day to the tune of 1 percent to 1.1 percent
4 depending on which market you looked at. So
5 through Tuesday the U.S. market was down about
6 2.6 percent. Up to date, February, figure about
7 3.6 percent. But if you look at calendar date
8 through Tuesday market had already been up -- or

9 continue to be up about 2.5 percent. So take
10 about a percent off of that number.

11 The Diversified Equity Fund which
12 obviously includes U.S and non-U.S. and that
13 defensive strategies composite the defensive, we
14 would have expected to have certainly helped
15 protect in February. Through Tuesday we're
16 showing a down number of 1.9 percent.

17 So providing some of that that cushion on
18 the downside. Through Tuesday the Diversified
19 Equity Fund would have been down about 2.8
20 percent and perhaps a little higher because of
21 the down day yesterday and hopefully the
22 defensive will continue to protect yesterday as
23 well there.

24 Calendar year to date to Tuesday, the
25 Diversified Equity Fund would have been up about

0014

1 PROCEEDINGS

2 2.2 percent. So again, you could adjust that a
3 little in your mind for another down day in the
4 equity market yesterday.

5 What I'll highlight here is the balanced
6 fund benchmark, which you'll see was down about
7 1.1 percent through Tuesday. And roughly flat
8 year to day through Tuesday.

9 Developed equity markets, EAFE market.
10 You can see it was down about 3.8 percent in
11 February, with a calendar year to day return of
12 positive of about 1 percent. That's probably
13 more like zero or flat today or yesterday
14 rather.

15 And merging equity markets were actually
16 down about 2.8 percent. So a little bit less
17 than developed markets so far in February. And
18 more positive return to date of about 3.4
19 percent.

20 EM was also down yesterday by about 1 and
21 a quarter percent. So you can haircut that one
22 as well.

23 MS. VICKERS: I have a question, Mike.
24 You had mentioned how you at the beginning of
25 February when things were happening with vicks

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1 PROCEEDINGS

2 and going crazy. Now, where is that or other
3 indicators becomes more volatile. What's
4 happening with those other indicators?

5 MR. FULVIO: So the Vicks continues to be
6 at an elevated price level.

7 MS. VICKERS: Increasing?

8 MR. FULVIO: I wouldn't say it's at an
9 increasing price level. It got to a point where
10 it increased and then over -- where it typically

11 trends is that it spikes up very quickly and
12 then sort of tails down.
13 MS. PELLICH: But it's at an elevated
14 level relative to a very low level.
15 MS. VICKERS: Where's it's been for the
16 past couple of years.
17 MR. FULVIO: Yeah.
18 MS. PELLICH: So it's moving back into
19 more typical levels if you look longer term
20 history.
21 MS. VICKERS: Thanks.
22 MR. ADLER: I just have a question about
23 CPI. The January report shows CPI up 50 basis
24 points, which is a lot for a month. And I don't
25 know if what -- but, is inflation seriously,

0016

1 PROCEEDINGS
2 like -- I know interest rates are rising. Is
3 inflation going up like that kind of number?
4 MR. FULVIO: It's -- yeah. I think it's
5 had something to do with the way they -- every
6 time they report return, they analyze it. So I
7 have a feeling.
8 MR. ADLER: So that is an annual --
9 MR. FULVIO: Yeah, that will be analyzed a
10 lot more.
11 MS. PELLICH: Inflation is running
12 about -- CPI is running about 2 percent.
13 MR. FULVIO: That might be --
14 MS. PENNY: Seasonally.
15 MR. FULVIO: -- seasonally adjusted, yeah.
16 This is seasonally adjusted for all urban
17 consumers.
18 MR. ADLER: Okay. Whatever.
19 Any other --
20 MR. FULVIO: It's probably a half of
21 percent on the 2 percent, is what you would see.
22 MS. REILLY: What does that mean?
23 MR. ADLER: I don't know what that means.
24 MR. FULVIO: So if CPI runs at annualized
25 level of about 2 percent, the mark in January

0017

1 PROCEEDINGS
2 increased by a half percent. So half percent on
3 2 percent.
4 MS. PELLICH: So it's running at 2 and
5 half percent?
6 MR. FULVIO: No. It's a percent of a
7 percent. You're not getting --
8 MR. ADLER: Half percent of 2 percent is,
9 like, nothing.
10 Okay. All right. Any other questions?
11 Comments?
12 [No response.]

13 MR. ADLER: Great. Thank you.
14 Next item is the Divestment Policy.
15 MS. BUDSIK: Okay. So everyone should
16 have a copy of the post final policy in front of
17 them. I point one change since the document was
18 distributed, I believe on Monday. And this was
19 is just to -- I think it tightens the policy.
20 It's not subsultive change in the sense of what
21 the board was intending.
22 So it's in the scope section Initial C.
23 As it was to address a point that John raised
24 that some of our, what we would consider, public
25 market managers, or managers where we control

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PROCEEDINGS

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the investment guidelines, they can hold private
3 security. We're talking particularly in the
4 High Yield area.

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So just reflect that those agreements,
6 those types of relationships with mangers would
7 be covered by the policy. That's all this
8 change is intended to catch.

9

MR. ADLER: I just want to give an example
10 particularly for Susannah. For example, this
11 board has divested from gun manufactures, and
12 there is a very large gun manufacture that is
13 not publically traded. Who is was formally
14 known as the -- as Freedom Group but is now
15 called Remington Outdoor Company. And it's
16 owned by Cerberus, a private equity firm. And
17 it's is possible and I don't know this for a
18 fact that that company issues publically traded
19 debt that high yield managers could buy and own.
20 But it probably doesn't appear on the list of
21 specific securities that we exclude from our
22 portfolio.

23

So I think we want to be clear that we
24 want to executed the securities of those
25 companies as well. Even if they're not

0019

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PROCEEDINGS

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publically -- even if the equity is not
3 publically traded. But they may have publically
4 traded debt. So I think that's something
5 actually want BAM to look into for existing
6 conclusions.

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MS. PELLICH: I believe they did look at
8 that issuance of gun manufactures, as well as
9 publically traded equity.

10

MR. ADLER: For High Yield for example to
11 ensure --

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MS. PELLICH: I don't know --

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MR. ADLER: -- because --

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MS. PELLICH: -- what was written into the

15 guidelines, but the list included debt
16 securities too.
17 MR. ADLER: Well, it says that securities
18 but the list of companies, I don't think it
19 includes privately owned like Freedom
20 Group/Remington Outdoor Group. We can check.
21 MS. VICKERS: Yeah, we can double check.
22 MR. ADLER: And there may be instances in
23 other industries. Like, that's one that, you
24 know, I know about. I mean, I've looked at it.
25 Thinking about the High Yield, but since we're

0020

1 PROCEEDINGS

2 doing the High Yield tomorrow. And there may be
3 coal companies, there may be privately owned
4 companies in the industries that we have
5 divested from that we want to ensure that they
6 didn't show up, you know, in any part that
7 publically trade debt portfolios.

8 MS. VICKERS: And I think with some of our
9 new systems, we're able to kind of take a deeper
10 look and slice it and dice it in that way.

11 MR. ADLER: Yeah, that would be good.

12 Great.

13 MS. VICKERS: If I could just reserve the
14 right to come back to this?

15 MS. BUDSIK: Sure.

16 MS. VICKERS: You know, like I think we
17 should try to move ahead with discussing and
18 maybe approving a policy. But for some reason,
19 Scott Evans or, if it affects High Yield,
20 Wesley, has a question, we might have to come
21 back to this point.

22 MS. BUDSIK: Okay. So, yeah, this was on
23 for discussion for today. The idea would be if
24 everybody is comfortable with the policy, we
25 would bring it to the board meeting.

0021

1 PROCEEDINGS

2 MS. VICKERS: Okay.

3 MR. ADLER: Wait a minute --

4 MS. BUDSIK: But the regular board
5 meeting. If between now and then, you have any
6 concerns with this, by all means.

7 MS. VICKERS: And maybe we can talk about
8 it tomorrow if there is.

9 MS. BUDSIK: Okay.

10 MS. VICKERS: Thank you.

11 MR. ADLER: Anything else on Divestment
12 Policy?

13 [No response.]

14 MR. ADLER: So let me just ask, typically
15 we would, at the investment meeting, see if
16 there's consensus and then recommend it for

17 action at the board meeting. Should we hold off
18 on that given that this is a new little change
19 that one or more trustees might come back with
20 comments on them, or should we go ahead and do
21 that pending leaving, you know, leaving the
22 trustees the right to come back in advance of
23 the board meeting? What's your recommendation?
24 MS. BUDSIK: It's up to the board. But I
25 think you would have consensus with --

0022

1 PROCEEDINGS

2 MR. ADLER: With that caveat.

3 MS. BUDSIK: -- with that caveat.

4 MR. ADLER: So let me see, is there
5 consensus with that caveat?

6 MS. VICKERS: Yes.

7 MR. ADLER: Thank you. Thank you for all
8 the work on this. Both Susannah, Valerie and
9 the other trustees as well.

10 Okay. I think that takes us to our
11 educational topic for today and tomorrow. And
12 we have better be very smart about Smart Beta by
13 the end of day tomorrow.

14 MS. PELLICH: I think everyone has a deck.
15 This is the same deck that was e-mailed.

16 So the reason we thought it might be
17 useful to talk about Smart Beta and capital
18 investing as an educational topic today -- well,
19 a couple of things. One is, I think it fits
20 into what we're trying to accomplish. At least
21 part of the agenda for -- just to talk about
22 something that's being -- that is a topic of
23 interest to large institutional investors and
24 that is being pursued by at least some large
25 institutional investors, in which the board

0023

1 PROCEEDINGS

2 might be interested in learning about.

3 And secondly, because this deck focuses at
4 a higher level in discussing Smart Beta and
5 Factor-Based Investing.

6 Tomorrow I think what you'll see in BAM's
7 presentation is more a focus on implementation
8 alternatives. And what tried to do today, is to
9 talk about the Smart Beta as an active
10 management strategy and what are the pros and
11 cons of the concept. And why are some investors
12 embracing it and others not embracing it.

13 So that's the prospective that we're
14 approaching this discussion with today.

15 The thing that I wanted to say that I
16 think is the most important thing to know is
17 that Factor-Based Investing also known as Smart
18 Beta is a newer buzzword, but it's active

19 management. It is really another way to pursue
20 active managers. And factors are simply, in
21 equity markets, are simply sources of return for
22 the market.

23 And every active manager you hire, or have
24 ever hire, used factors in their portfolio
25 constructions. So we hire value managers.

0024

1 PROCEEDINGS

2 They're using value as a factor. Value is a
3 factor that you can buy Smart Beta, but you have
4 managers that focus on value factors. You have
5 managers that focus on momentum. You have
6 managers that focus on earnings on growth.

7 So every active manager selects securities
8 using a win or win approach that identifies
9 factors that they're interested in. And then
10 they try to find the best companies that display
11 those factors and they build a portfolio. And
12 that's what factor-based investing is.

13 Yes.

14 MR. ADLER: But you would say that active
15 managers use factors.

16 MS. PELLICH: Yes.

17 MR. ADLER: But you wouldn't say that all
18 active managers are Smart Beta managers.

19 MS. PELLICH: No.

20 MR. ADLER: Right.

21 MS. PELLICH: So what the --

22 MR. ADLER: You could say all Smart Beta
23 is active, but you wouldn't say all active is
24 Smart Beta.

25 MS. PELLICH: Yes. So what is Smart Beta

0025

1 PROCEEDINGS

2 mean, aside from a catchy product name.

3 Smart Beta means that managers are using
4 quantitative methodologies to select securities
5 that display certain factors. And you're active
6 managers are using fundamental research
7 methodologies primarily to select companies that
8 display certain factors.

9 So there's a lot of similarity across
10 traditional active management and the Smart Beta
11 or the factor-based strategies.

12 The factor-based investors would say
13 they're pure because of focusing very explicitly
14 on these factors. They are lower cost. So
15 their fees typically are between traditional
16 active managers and passive managers. And
17 they're more systematic. Because they're using
18 quantitative methodologies and they're less
19 influenced by stories about management or
20 stories about new products. They are really

21 focusing on characteristics that these companies
22 display rather than the stories behind the
23 characteristics. And I think that's really lost
24 in a lot of discussion about factor-based
25 investing. It's just more quantitative

0026

1 PROCEEDINGS

2 systematic approach to investing and it's very
3 similar in many ways to traditional investing
4 that we've become familiar with over the past
5 several decades.

6 So Mike is going to talk a little more
7 about the details.

8 MR. FULVIO: That was a good introduction.
9 But maybe I'll start by talking a little bit
10 more beta. So when people throw around the term
11 "beta" portion, they're referring to market
12 beta, or the sensitivity of a stock or a group
13 of stocks sensitivity to how the market moves as
14 a whole. And you can call market of that broad
15 movement of the market that in itself -- you can
16 call that a factor. That is a factor.

17 So you can look at sensitivity of your
18 portfolio to have a market moves. And you know,
19 the expectation is that the market goes up 1
20 percent, and you have a beta of 1 percent --

21 MS. PELLICH: A beta of 1.

22 MR. FULVIO: A beta of 1, rather. Your
23 stocks should move like the market.

24 Now, what factor-based strategies are
25 doing. They are essentially assigning a factor

0027

1 PROCEEDINGS

2 weighing or a factor score to different
3 companies based on different betas that go
4 beyond just marketing.

5 So maybe the slide four is one way to
6 illustrating it. So there's been a lot of
7 academic research around factors. And I
8 believe, Mel sent an interesting article the
9 other day that noted at least there were 300
10 published factors by academics. So it's really
11 interesting to see how many times and different
12 ways this thing can be sliced and diced. But
13 some of them were a popular academic work that
14 was done -- in the space that was done by Eugene
15 Fama and Ken French in the early 90s.

16 And what they were trying to do, is they
17 were trying to take beta and disaggregate that
18 into different factors. So how much of the
19 return of a stock or a group of stocks could be
20 attributed to other things outside of market.
21 How much of it could be attributed to size of
22 the company? How much could be attributes to

23 how the company trades, or what's the valuation
24 of that company on a relative price -- stock
25 price to earnings metric? What's -- how does

0028

1 PROCEEDINGS

2 the company appear to peers on a quality basis?
3 Usually what they say then in that regard is on
4 a debt to equity ratio, how much leverage does
5 the company have.

6 And then one of the popular factors is
7 that comes up quite a bit is momentum. So for
8 stocks that are rising quickly, can you find
9 some credence in their ability to actually
10 produce better when their associated with stocks
11 that are moving more quickly.

12 So there's a number of factors and what
13 Smart Beta or factor based strategies are doing
14 is they're trying score or assign some weighting
15 to all of these factors for each country -- each
16 company rather in the universe. And as Robin
17 said, systematic process to re-weighting
18 portfolios based on these factors.

19 So when you talk one of your traditional
20 active managers, they might say, "Yeah, factors
21 are important, but we don't care about factors."
22 They'll say, "We meet with companies. We like
23 to talk about products. We like to talk about
24 management. We think management is very
25 important."

0029

1 PROCEEDINGS

2 So we're not concerned with whether or not
3 you think a company a growth company or has a
4 lot of debt, we're not concerned with how a
5 factor score impacts our portfolio process.
6 We're picking companies. But you dig a little
7 bit deeper, and you talked to about managers
8 about their process entails, their process
9 usually entails, like Robin said, focusing on
10 certain aspects of how the company's financials.
11 Certain aspects of how the company's conduct
12 their business who their peers and who their
13 competitors are. You can use that information
14 to look at their portfolio and understand what
15 are the basis associated with active managers.

16 So in that regard, they are also using
17 factors to come up with how they view companies.
18 How they construct their portfolios. It's
19 really embedded in their philosophy, they just
20 won't say, at the onset, that they're doing that
21 way.

22 And not to say they're trying to hide, but
23 they don't think of it that way. In a lot of
24 cases, for them it's about trying to exploit

25
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some of the interesting creatic things that they

1 PROCEEDINGS

2 can find in -- their process. But if you look
3 at any portfolio, you can assign factor
4 exposures to any portfolio using quantitative
5 process and using the different factors that
6 have been published in Macadamia. And
7 understand what's my exposure to value. What's
8 my exposure to momentum. You can understand how
9 the manager performance has sort of been driven
10 by those factors.

11 So I'll pause there and see if that
12 resonates or if there's any questions.

13 MR. KAZANSKY: So would it be fair to say
14 that the factor based in investing, they're
15 basically putting on blinders. They're
16 forgetting about all this other stuff that other
17 folks may look at. And just saying these are
18 the categories that we care about, nothing else
19 matters? Or do they primarily say that but also
20 kind of weigh some other stuff, or it just a
21 very narrow vision of just these issues?

22 MR. FULVIO: They try to take all the
23 subjective and behavior, all aspects of the
24 process our of their methodology by doing this
25 very systematic usually in a computer quantitative

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1 PROCEEDINGS

2 orientated way.

3 MS. PELLICH: It's a very, very focused
4 process. They're not meeting with management.
5 They're not looking at new product
6 introductions. They're really trying to
7 understand what has driven this company's stock
8 price movement historically, and whether they
9 think there is persistent incremental returns
10 associated with that factor.

11 So the academic research has stated among
12 other things, that over time you get rewarded
13 for having a value exposure. Over time you get
14 rewarded for having a quality exposure. And
15 what a factor-based manager would say is, all of
16 the other stuff is noise. And it's nice is
17 management is good. But what really is driving
18 the stock is the sources of return for that
19 stock.

20 MR. KAZANSKY: Wouldn't it -- I mean then
21 isn't every factor that they're looking at
22 ultimately just, as we call it, past
23 performance? Because they're not trying to
24 glean any information about what may happen in
25 the future outside of what is already happen in

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PROCEEDINGS

1
2 the past.

3 MR. FULVIO: I think where the discussion
4 does go further to your point, is you have
5 managers in the Smart Beta space. What they'll
6 do is they'll construct portfolios of multiple
7 factors and they'll use that, what they're call
8 there, multiple factor model. So they'll be
9 cognoscente of they exposures to all those
10 factors but they'll also take into account how
11 those factors are priced relative to history.

12 So they might make a determination in
13 their portfolio that today value is very
14 underpriced, and I would want to overweight my
15 factor exposure to value and potentially away
16 from momentum. So if momentum has been really
17 strong which many will say, especially text
18 space last year, you say companies up 30, 50
19 percent. Those companies would have had to hire
20 a momentum score. Okay. Maybe that's not
21 sustainable. And so as the Smart Beta manager,
22 I can use all this information to take some
23 judgment on about how I could tilt my portfolio
24 in a way that might be better position to take
25 advance of some of the relative value between

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PROCEEDINGS

1
2 factors.

3 MS. PELLICH: So they are looking at
4 historical data to understand the factor
5 exposures in the portfolio. But they're looking
6 forward to understand whether that factor is
7 attractively priced today.

8 MR. KAZANSKY: Oh, okay.

9 MR. ADLER: The thing about -- don't many
10 managers offer many factor funds?

11 MS. PELLICH: Yes.

12 MR. ADLER: So in other words, you know,
13 BlackRock has, I don't know, dozens, scores
14 hundreds --

15 MS. PELLICH: I don't think what the
16 number is either.

17 MR. ADLER: Right. Or different factor
18 funds.

19 MS. PELLICH: Yes.

20 MR. ADLER: Single factor, multi-factor
21 whatever, and so they're not -- the manager is
22 not necessarily making a call on which factor is
23 the best factor. And they -- and some ways I
24 think what they're saying to investors is,
25 "Here's our deck of factor funds, you make the

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PROCEEDINGS

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2 call." What was that? That used to be a TV

3 commercial. You know, "You make the call."
4 MR. FULVIO: AT&T.
5 MR. ADLER: Here's your -- you make the
6 call factor -- no, just joking.
7 MS. VICKERS: But you cover your bets by
8 investing in all of those.
9 MR. ADLER: Which is what an index is
10 truthfully.
11 MR. MCTIGUE: It is March.
12 MR. ADLER: What's that?
13 MR. MCTIGUE: Basketball you make the
14 call.
15 MR. ADLER: Right. But then I imagine
16 that there are some more active -- I mean those
17 are really passive factor funds, I think. I
18 mean that's a little bit of a oxymoron. But as
19 you say, I they're low cost. There's also ETFs,
20 factor-based EFTs.
21 MR. FULVIO: Yes. So this is -- it's
22 really interesting. There's a lot. If you
23 watch it at all, any of the financial press, or
24 anything, there's a ton of money being spent on
25 marketing factor-based strategies and Smart

0035

1 PROCEEDINGS
2 Beta. And so the index managers like this a
3 lot. The index providers like this a lot. So
4 index provider, I mentioned before 300-plus
5 factors.
6 I also saw snip-bit that one of the index
7 providers itself offers over 4,000 different
8 factor indices. So I don't know that there's a
9 product for everyone of those indices. But
10 there's certainly an incentive that we come
11 licensed by asset managers. Asset managers who
12 turn around and then market product. Because it
13 could be a very quick asset grab. And even
14 though the fees are not as high as active
15 management, traditional active management, we're
16 definitely higher than if you went out and
17 bought a capitalization-weight fund.
18 MR. ADLER: What's the order of
19 management, if you can?
20 MS. PELLICH: Their fees?
21 MR. ADLER: Yeah. You know, a typical --
22 and I'm sure there's a difference between -- I
23 know we pay virtually nothing for the
24 capitalization --
25 MS. PELLICH: Yes.

0036

1 PROCEEDINGS
2 MR. ADLER: -- weighted index funds. But
3 a typical investor, you know, is going to pay --
4 that typical investor is going to pay single

5 digit basis points, I think for U.S., you know,
6 Russell 3000, or an S&P 500.

7 MR. FULVIO: Yeah. So it might be double
8 the mid-single digit. And then figure active
9 management could be anywhere, like, 10 times
10 that.

11 MS. PELLICH: So there are some very
12 active manager. You know, I'll through out one
13 name like HUR, who manages factor-based
14 strategies.

15 MR. ADLER: Who?

16 MS. PELLICH: HUR.

17 MR. ADLER: HUR, right.

18 MS. PELLICH: Yeah. Manages factor-based
19 strategies and they certainly have reasonable
20 high fees.

21 So in every case, they're higher than
22 higher than a capitalization-weighted
23 benchmarks. But it depends whether they're
24 actually providing any discretionary
25 managements.

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1 PROCEEDINGS

2 MR. ADLER: Right.

3 MS. PELLICH: So the index, they're
4 passive -- they're are passive factor-based
5 strategies. They're still higher fees than
6 capitalization-weighted indexes and then it goes
7 up from there.

8 And just one other thing. So there are
9 proliferation of products. What the
10 multi-factor managers do, is they collect
11 factors and they re-weight factors based on how
12 attractive they think any factor is in the
13 market in any given point in time.

14 MR. ADLER: So they are, in other words,
15 not the fund is advertising that we're 30
16 percent momentum and 40 -- in other words, they
17 say here's the factors that we utilize --

18 MS. PELLICH: Yes.

19 MR. ADLER: -- and then based on market
20 conditions, we're going to overweight or
21 underweight --

22 MS. PELLICH: Exactly.

23 MR. ADLER: I see. That is totally active
24 management.

25 MS. PELLICH: Yes.

0038

1 PROCEEDINGS

2 MR. FULVIO: I would say to some degree --
3 I shouldn't even say to some degree. To a large
4 degree, there are active managers, Smart Beta
5 managers that are coming up with ways that they
6 think an improvement over how the traditional

7 academics have identified factors.

8 So if we think they're defining value in a
9 way that's not as good as the way we can do it,
10 we try to exploit that as well.

11 So there's active management in the way
12 they define and build the factor as well. So
13 the HUR would be an example, a firm that does a
14 lot of research around that. And they
15 incorporate that into many of their strategies.
16 Not just the factor-based strategies.

17 MR. ADLER: So it might be not -- in other
18 words, the value might not be based on the
19 traditional earnings. It might be priced on
20 something else.

21 MR. FULVIO: Right. Is it prices to --
22 yeah. Or is it priced to five-year earnings --
23 five-year past earnings. Five-year projected
24 earnings. There's a whole -- the timing of when
25 you lineup which price and which earnings report

0039

1 PROCEEDINGS

2 you're looking at. There's a lot of different
3 ways --

4 MR. ADLER: Slice and dicing.

5 MS. PELLICH: So you know, we have a lot
6 of information in here. And you are going to
7 hear about this tomorrow. But I think the most
8 important take-aways are, this is a active
9 management. You're going to pay high fees. And
10 the premise for this is that by systematically
11 identifying an investing in attractively priced
12 factors that drive market returns. You can
13 generate better returns after the
14 capitalization-weighted benchmark. That's the
15 theory.

16 One of the challenges of investing in this
17 area is that they're relatively few products
18 that have a long record. It's a pretty new
19 field. There's a lot academic literature that
20 says over long periods of time, certain factors,
21 like value, like, small, size, yield,
22 incremental returns that you get paid for taking
23 that risk.

24 But it can take a long time to realize
25 those returns, and they don't always incorporate

0040

1 PROCEEDINGS

2 all the trading costs, and other costs
3 associated with those investment strategies.

4 So as with any -- as with the evaluation
5 of any active management strategy, you have to
6 bring a fair amount of skepticism. You have a
7 strategy that has performed very well at pretty
8 close to zero cost in terms to fees. And the

9 rational for moving into these kinds of
10 strategies if you believe that
11 capitalization-weighted benchmarks in the U.S.
12 have done so well, that we should apply some
13 other informational, analysis, methodology to
14 try to generate incremental return. Because we
15 don't think the capitalization-weighted
16 benchmarks could continue performing at this
17 level.

18 And that's -- at the risk of over
19 simplifying that is really is the challenge.

20 MS. VICKERS: So what's the overlap
21 between some of the factors we already have
22 actively managers like working on the value, and
23 then what we would maybe moving into kind like a
24 cheaper option of doing the same thing in just a
25 different way?

0041

1 PROCEEDINGS

2 MS. PELLICH: In this fund you have you
3 have virtually no active managers in the U.S.
4 market. So all those factors are present in the
5 Russell 3000, but you don't have style-based
6 managers, active managers in the pension market.

7 MR. ADLER: Only in pension fund. We do
8 in TDA.

9 MS. PELLICH: Yes, but this is being
10 considered for the pension fund.

11 MR. ADLER: So not for the TDA?

12 I mean because we do have different
13 styles.

14 MS. PELLICH: In the TDA --

15 MR. ADLER: -- which you are telling me
16 today really is Smart Beta.

17 MS. PELLICH: What I'm telling you is
18 factor-based. Smart Beta is just a marketing
19 phrase.

20 MS. VICKERS: In the TDA we have
21 style-based, or factor-based active managers --

22 MS. PELLICH: Yeah, about 10 percent.

23 MS. VICKERS: -- but they're not using
24 this stream-line quantitative approach.

25 MS. PELLICH: Exactly. So we could

0042

1 PROCEEDINGS

2 consider it. If we found a compelling strategy
3 that would be --

4 MR. FULVIO: One example, though, would be
5 within the defense strategies' composite.

6 MS. PELLICH: Yes, that's a good point.

7 MR. FULVIO: They're low volatility
8 strategies. Volatility in this case is a factor
9 that those managers are using to weigh their
10 portfolio or optimize their portfolio. Such as

11 that the overall portfolio has less --
12 relatively less volatility compared to the broad
13 market.

14 MS. PELLICH: That's a very good point.
15 And we have two of those managers. They
16 approach low volatility factor investing in some
17 of different ways. The performance has been
18 strong, and actually at different points of time
19 one has out performed the other. But let's say
20 over three years they haven't done as well.
21 Over a longer period of time they generally kept
22 up with the market.

23 MR. FULVIO: We don't expect them to keep
24 up on the market. It's up 15 percent.

25 MS. PELLICH: Right. So those low vol

0043

1 PROCEEDINGS

2 managers we're put into the defensive sector
3 precisely because we thought they would protect
4 on the down side. And that's the mandate to the
5 defensive sector.

6 So we have pretty agnostic view on Smart
7 Beta. We think there's some interesting product
8 out there, but we think it should be considered
9 as we would consider any active managers
10 strategies.

11 MR. ADLER: Just again, on the QTP, I
12 think that our U.S. equity is 85 percent index.

13 MS. PELLICH: More.

14 MR. ADLER: More than 85?

15 MS. PELLICH: Yeah.

16 MR. ADLER: So what we're thinking about
17 on Smart Beta is just in that actively managed
18 part, or taking some of the equity, some of the
19 passive and moving it to the Smart Beta?

20 MS. PELLICH: The latter.

21 MR. FULVIO: Yeah. I believe the
22 recommendation for TRS was 10 percent of the
23 larger cap index allocation.

24 MR. ADLER: Would go to Smart Beta?
25 That's pretty substantive.

0044

1 PROCEEDINGS

2 And you guys are agnostic on that?

3 MR. KAZANSKY: He used air quotes.

4 MR. FULVIO: We're not agnostic the
5 decision to do that. We're agnostic to make
6 Smart Beta versus traditional -- we think it
7 would approach --

8 MR. ADLER: Oh, traditional active
9 management?

10 MR. FULVIO: Yeah.

11 MR. ADLER: But what about Smart Beta
12 versus passive?

13 MR. FULVIO: So there's obviously an
14 incremental cost that's notable particularly
15 given the low base and what you pay today. We
16 do think it's an interesting way of kind of --
17 it you believe that the equity markets have fun
18 quite a bit over the last few years. And if you
19 think there's a way to sort tilt a way and not
20 have to catch the falling knife. That you might
21 be forced to do if you're holding all cap
22 indices. This might be an interesting way of
23 tilting away at this particular point in time.
24 But you have to -- again, do you have the
25 same kind of belief and confidence and

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1 PROCEEDINGS

2 strategies to out perform or protect the way you
3 would any other active manager, is the question.

4 MS. VICKERS: Just to clarify, tomorrow is
5 more of a discussion. And then the following
6 month, you know, there was a Smart Beta search.
7 And we'll be coming back with the results of
8 that.

9 MR. KAZANSKY: So we will -- well, will we
10 be seeing tomorrow some sort of data as to how
11 certain factors are doing compared to others, so
12 far, what BAM may or may not have been looking
13 at, so that they are making this recommendation
14 or --

15 MS. VICKERS: I believe that the
16 conversation -- I think we could ask that. But
17 the general presentation is just similar to this
18 --

19 MR. KAZANSKY: Just an overview.

20 MS. VICKERS: -- this is what Smart Beta
21 is. This is how we're looking at. This is why.

22 MR. ADLER: This is a presentation in the
23 portal on their Smart Beta.

24 MR. KAZANSKY: Yeah, I haven't looked at
25 it.

0046

1 PROCEEDINGS

2 MS. VICKERS: It's pretty brief.

3 MR. KAZANSKY: Okay. Because I mean, if
4 we're talking about thousands and thousands of
5 different factors --

6 MR. ADLER: And I know --

7 MR. KAZANSKY: Which ones are we going
8 with, you know?

9 MR. ADLER: Yeah. Well, I assume that
10 comes in the next month.

11 MS. VICKERS: But I think you should ask
12 that.

13 MR. ADLER: The MCSI risk system, I think
14 it has 3000 factors, or something like that that

15 you can disaggregate. You know, for our current
16 portfolio and obviously can do that for
17 perspective managers as well, so.

18 MS. PELLICH: So again, what's being done
19 here is by BAM is an effort to say, how can we
20 protect ourselves against what will happened
21 inevitability. We don't know when. We don't
22 know how. Can we protect ourselves. Can we
23 protect these outstanding gains that we
24 generated. And this one avenue we should
25 consider.

0047

1 PROCEEDINGS

2 MR. ADLER: And the long duration
3 treasuries was another.

4 MS. PELLICH: Well, that's a very
5 different -- that's a good point. It's
6 important to realize that just like any active
7 management strategy, that if the equity market
8 declined significantly. The Smart Betas
9 strategies will decline significantly. All your
10 active managers will decline significantly. The
11 hope is that they decline a little less.

12 So these are marginal improvements. At
13 the end of the day, what will drive the risk of
14 your U.S. equity portfolio, no matter who's
15 managing it, is the fact that you're investing
16 in U.S. equities. And there's no escape from
17 that.

18 You can do a little better, you can do a
19 little worse. But you can't get away from a
20 market down turn.

21 And that -- so whatever we do, even if we
22 move 10 percent of the large cap U.S. equity
23 exposure, it can only have a De Minimis impact
24 on the total or the total pay out. Because it's
25 going to follow the U.S. equity impact. Maybe

0048

1 PROCEEDINGS

2 we're do a little better on that 10 percent of
3 the large cap portfolio. It's a De Minimis
4 impact.

5 The long treasury are an asset allocation
6 decision, which could actually have a
7 significant impact. Because in various -- in a
8 number of scenarios when there are significant
9 equity market down turns, there are actually
10 significant gains in long treasuries. This does
11 happen every time. But there are a number of
12 situations, most notably a flight to quality.
13 Which that does happen. So that could have a
14 very significant impact in total returns.

15 I think there are many investors who are
16 comfortable with long treasuries because they're

17 concerned about rising rates. And what will
18 happen to long treasuries if rates will continue
19 to rise significantly, which is a valid concern.
20 But long treasuries can have a very significant
21 defensive role to play in your portfolio. Smart
22 Beta would have a De Minimis defensive role.
23 MR. ADLER: Is it fair to say that the
24 decision about Smart Beta is more of a tactile
25 decision, and the decision that we made about

0049

1 PROCEEDINGS

2 long treasuries in the last asset allocation is
3 more of a strategic decision, or is that unfair?

4 MS. PELLICH: I would say, I might use
5 different words. I would say the Smart Beta
6 strategies and implementation decision, you know
7 you want this much U.S. equity, how are we going
8 to apply it. The long treasure portfolio
9 decision is an asset diversification.

10 MR. FULVIO: If you're going to call a
11 factor, that's more of a macro factor decision.
12 You're trying to diversify the equity factors as
13 a whole with the interest rate imposer.

14 MR. ADLER: Just a question, you may not
15 know the know the answer to. During the month
16 of February planned equity markets declined
17 across the board, do you know what happened to
18 long treasuries?

19 MR. FULVIO: So long treasuries -- this is
20 one of those instances where we have seen
21 treasuries actually move directionally with the
22 equity market --

23 MS. PELLICH: So they didn't protect.

24 MR. FULVIO: They didn't protect -- I want
25 to say -- a recent period of volatility,

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1 PROCEEDINGS

2 equities might have been down about 10 percent
3 relative to their peak, long treasuries were
4 down about 3 percent. But they didn't go up.

5 MR. ADLER: And part of this you had this
6 where interesting rates were rising --

7 MS. PELLICH: That's right.

8 MR. ADLER: -- so in -- and you know,
9 rising interesting rates do often have a
10 negative effect on equity markets, right?

11 MS. PELLICH: Well, actually I just
12 calculated those statistics for yesterday and
13 less often than you might think. It's actually
14 relatively small percentage at the time.

15 So, you know, in 2008 you would have been
16 very, very happy to have long --

17 MR. ADLER: Right -- on the justification.

18 MS. PELLICH: Yeah. But it's not only

19 2008. If -- it depends why equity markets are
20 falling. They're falling because of concerns
21 about credit risk, long treasuries can do well
22 in general.
23 MR. KAZANSKY: Would it be reasonable
24 assumption that the down turn in February was so
25 short, really just a week or so that there

0051

1 PROCEEDINGS
2 wasn't that flight for quality? Because by the
3 time people had to process it, the markets were
4 already turning back around?
5 MS. PELLICH: No. I think it was really
6 driven concerns about inflation and rates
7 rising, and that affected the equity market and
8 treasuries markets. And that may persist. So
9 this -- there are no guarantees. But, you know
10 to date the best diversifiers are against equity
11 risks is high quality fixed income.
12 MR. ADLER: Other questions or comments?
13 [No response.]
14 MR. ADLER: Thank you for the
15 presentation. Very informative. Sets a high
16 bar for BAM for tomorrow.
17 MR. FULVIO: We collaborated together on
18 this.
19 MS. PELLICH: Yes, we did. They -- we
20 talked to them about this and we talked to them
21 about their presentation. And we wanted to make
22 sure they weren't --
23 MR. ADLER: I think that concludes our
24 public agenda. We do have an executive agenda.
25 So a motion to move into executive session would

0052

1 PROCEEDINGS
2 be in order.
3 MS. PENNY: I move pursuant to Public
4 Officers Law Section 105 to go into executive
5 session for discussions regarding specific
6 investment matters.
7 MR. ADLER: Thank you, Debbie.
8 Is there a second?
9 MS. VICKERS: Second.
10 MR. ADLER: Thank you, Susannah.
11 Any discussion?
12 [No response.]
13 MR. ADLER: All in favor of the motion to
14 exit public and enter executive session, please
15 say aye.
16 [Chorus of ayes.]
17 MR. ADLER: All opposed, please say nay.
18 [No response.]
19 MR. ADLER: Any abstentions?
20 [No response.]

21 MR. ADLER: Motion carries.
22 We're going into execution. I just want a
23 brief break to refill my coffee, I invite others
24 to do the same.
25 (Whereupon, a recess was taken at

0053

1 PROCEEDINGS
2 this time.)
3 MR. ADLER: So a motion to return to
4 public session would be in order?
5 MS. PENNY: So moved.
6 MR. ADLER: Is there a second?
7 MS. VICKERS: Second.
8 MR. ADLER: Okay. Moved and seconded.
9 Any discussion?
10 [No response.]
11 MR. ADLER: All in favor of the motion to
12 go back into public session, please say aye.
13 [Chorus of ayes.]
14 MR. ADLER: All opposed, please say nay.
15 [No response.]
16 MR. ADLER: Any abstentions?
17 [No response.]
18 MR. ADLER: Motion carries.
19 Off the record.
20 (Whereupon, a discussion was held off the
21 record.)
22 MR. ADLER: Okay. We're back in public
23 session.
24 Susan, would you report out of executive
25 session?

0054

1 PROCEEDINGS
2 MS. STANG: Absolutely.
3 In executive session an issue with out
4 custodian was discussed.
5 MR. ADLER: Thank you. I think that
6 concludes our business for today.
7 A motion to adjourn would be in order.
8 MR. KAZANSKY: So moved.
9 MR. ADLER: Is there a second?
10 MS. VICKERS: Second.
11 MR. ADLER: Thank you. Any discussion?
12 [No response].
13 MR. ADLER: All in favor of the motion to
14 adjourn, please say aye.
15 [Chorus of ayes.]
16 MR. ADLER: All opposed, please say nay.
17 [No response.]
18 MR. ADLER: Any abstentions?
19 [No response.]
20 MR. ADLER: Motion carries.
21 Thank you very much.
22 (Time Noted: 11:38 a.m.)

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C E R T I F I C A T E

I, GINAMARIE DeMARCO, a shorthand reporter and Notary Public within and for the State of New York, do hereby certify:

That the within statement is a true and accurate record of the stenographic notes taken by me.

I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

GINAMARIE DeMARCO